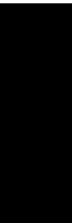


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**INTELLIGENTE ANZEIGEN**

**INTELLIGENT DISPLAYS**

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## EIGENSCHAFTEN

### Einzelbausteine

Intelligente Anzeigen sind alphanumerische LED Displays mit eingebautem CMOS-Schaltkreis. Sie sind völlig unabhängige, anwenderfreundliche Peripheriebausteine, die eine große Vielfalt von Gestaltungsmöglichkeiten zulassen, Entwicklungszeit einsparen und -kosten reduzieren.

- ASCII-Zeichensatz für 128 und 256 Zeichen, oder
- Frei programmierbarer Zeichensatz
- Helle, kontraststarke LED-Technologie
- TTL-kompatibel, CMOS-Logik
- Betrieb mit 5 V Versorgungsspannung
- Sehr hohe Lebenserwartung
- Kompatibel zu Microcomputer-Systemen
- Zugriffszeit von 45 ns bis 525 ns
- Direkter, unabhängiger Zugriff auf jede Stelle
- Sehr kompakte, flache Gehäuse
- Einfach aneinanderreihbar für erweiterte Textlängen
- Helligkeitscode für gleichmäßig leuchtende Anzeige

## EINBAUHINWEISE

### Handhabung

ESD-Vorsichtsmaßnahmen sind zu beachten

- Vermeiden Sie, Anschlüsse zu berühren. Fassen Sie nur am Gehäuse an.
- Transportieren Sie die Bausteine nur in antistatischen Schienen oder auf leitendem Material.
- Die Arbeitsumgebung muß leitend geerdet sein (leitender Fußboden, leitende Arbeitstische, individuelle Handgelenk-Ableitbänder, usw.)

### Löten

- Max. Löttemperatur: 260 °C
- Max. Lötzeit: 5 s
- Min. Lötabstand: > 1,59 mm

Bei Wellenlötbadern darf die Gehäusetemperatur die max. Betriebstemperatur nicht überschreiten.

**Es muß wasserlösliches bzw. alkoholfreies Flußmittel verwendet werden.**

### Lösungsmittel

**Zum Reinigen der Platinen keine alkoholhaltigen Lösungsmittel benutzen.**

## FEATURES

### Display devices

Intelligent displays are alphanumeric LED displays with built-in CMOS circuits. They are totally self-contained peripherals which allow a wide variety of design configurations, minimize design time and reduce design costs.

- ASCII character set for 128 and 256 characters, or
- User definable characters
- Bright, high-contrast LED technology
- TTL-compatible, CMOS logic
- 5 V operation
- Very high life expectancy
- Compatible with microprocessor systems
- Access time from 45 ns up to 525 ns
- Independent access to each digit
- Highly compact, flat packages
- Easily stackable for longer message lengths
- Intensity coded for display uniformity

## MOUNTING INSTRUCTIONS

### Handling

Observe ESD precautions

- Avoid touching the pins; handle the body only.
- Keep the devices in anti-static tubes or conductive material when transporting
- Use a conductive and grounded work area (conductive flooring, conductive work benches, individual wrist straps, etc.)

### Soldering

- Max. soldering temperature: 260 °C
- Max. soldering time: 5 s
- Min. solder distance: > 1.59 mm below the seating plane

In case of wave soldering, the package temperature of intelligent displays is not allowed to exceed the max. operating temperature.

**It is necessary to use water soluble or alcohol-free soldering flux.**

### Solvents

**Do not use any cleaning solvents containing alcohol.**

CERAMIC HI-REL INTELLIGENT DISPLAYS

| Packages | Type/<br>Color | # of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|--------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|--------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

8-digit Ceramic Hi-Rel Intelligent Display

|                                                                                   |                       |   |      |               |          |  |               |                                                          |                                                                                                                                                                                                                                                                    |             |    |
|-----------------------------------------------------------------------------------|-----------------------|---|------|---------------|----------|--|---------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
|  | IPD 2131<br>yellow    | 8 | 4.85 | 42.7<br>x 9.9 | Parallel |  | 35<br>(5 x 7) | Operating<br>-55 to +100 °C<br>Storage<br>-65 to +125 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory, and driver,</li> <li>128 character ASCII character ROM,</li> <li>16 user definable characters,</li> <li>Rugged ceramic package, hermetically sealed flat glass lens.</li> </ul> | Q68000A8904 | 10 |
|                                                                                   | IPD 2132<br>super Red |   |      |               |          |  |               |                                                          |                                                                                                                                                                                                                                                                    | Q68000A8836 |    |
|                                                                                   | IPD 2134<br>HEG*      |   |      |               |          |  |               |                                                          |                                                                                                                                                                                                                                                                    | Q68000A8906 |    |

4-digit Ceramic Hi-Rel Intelligent Displays

|                                                                                     |                         |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        |             |    |
|-------------------------------------------------------------------------------------|-------------------------|---|------|------------------|-----------------------|--|---------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
|   | ISD 2351<br>yellow      | 4 | 4.88 | 20.07<br>x 8.43  | Serial shift register |  | 35<br>(5 x 7) | Operating<br>-55 to +100 °C<br>Storage<br>-65 to +125 °C | <ul style="list-style-type: none"> <li>Sunlight viewable,</li> <li>Serial input. Easily cascaded for multiple displays.</li> <li>Built-in low power CMOS shift register and constant current LED row drivers.</li> <li>External column strobing allows use of standard and custom alphanumeric fonts.</li> <li>Rugged ceramic package, hermetically sealed flat glass lens.</li> </ul> | Q68000A8142 | 11 |
|                                                                                     | ISD 2352<br>super-red   |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8143 |    |
|                                                                                     | ISD 2353<br>HEG*        |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8144 |    |
|  | ISD 2010<br>hyper red   | 4 | 3.7  | 17.7<br>x 7.87   | Serial shift register |  | 35<br>(5 x 7) | Operating<br>-55 to +100 °C<br>Storage<br>-65 to +125 °C | <ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays.</li> <li>Built-in low power CMOS shift register and constant current LED row drivers.</li> <li>External column strobing allows use of standard and custom alphanumeric fonts.</li> <li>Rugged ceramic package, hermetically sealed flat glass lens.</li> </ul>                             | Q68000A8134 | 12 |
|                                                                                     | ISD 2011<br>yellow      |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8135 |    |
|                                                                                     | ISD 2012<br>super red   |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8136 |    |
|                                                                                     | ISD 2013<br>HEG*        |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8137 |    |
|  | ISD 2310<br>hyper red   | 4 | 4.88 | 20.07<br>x 8.43  | Serial shift register |  | 35<br>(5 x 7) | Operating<br>-55 to +100 °C<br>Storage<br>-65 to +125 °C | <ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays.</li> <li>Built-in low power CMOS shift register and constant current LED row drivers.</li> <li>External column strobing allows use of standard and custom alphanumeric fonts.</li> <li>Rugged ceramic package, hermetically sealed flat glass lens.</li> </ul>                             | Q68000A8138 | 13 |
|                                                                                     | ISD 2311<br>yellow      |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8139 |    |
|                                                                                     | ISD 2312<br>super red   |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8140 |    |
|                                                                                     | ISD 2313<br>HEG*        |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8141 |    |
|  | IPD 2545 A<br>super red | 4 | 6.4  | 30.48<br>x 12.45 | Parallel              |  | 35<br>(5 x 7) | Operating<br>-55 to +100 °C<br>Storage<br>-65 to +125 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>128 ASCII character ROM,</li> <li>Rugged ceramic package, hermetically sealed flat glass lens.</li> </ul>                                                                                                                                                                       | Q68000A9883 | 14 |
|                                                                                     | IPD 2547 A<br>HEG*      |   |      |                  |                       |  |               |                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A9884 |    |

\* HEG = high efficiency green

10-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAY

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

10-digit Slimline 5X5 Intelligent Display

|                                                                                   |                          |    |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |   |
|-----------------------------------------------------------------------------------|--------------------------|----|------|----------------|--------|---------------------|---------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | SCD 55100 A<br>hyper red | 10 | 3.68 | 38.1<br>x 3.68 | Serial | ±50/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>• Optimum display surface efficiency,</li> <li>• Lower Power - 30% less than 5X7 dot matrix,</li> <li>• High speed serial data input - 5MHz,</li> <li>• Readable from 6 feet (1.8 meters),</li> <li>• Attributes: <ul style="list-style-type: none"> <li>– 250 bit RAM for user definable characters</li> <li>– Eight dimming levels,</li> <li>– Power down mode (&lt;250 µW),</li> <li>– Hardware/software CLEAR function,</li> <li>– Lamp test.</li> </ul> </li> <li>• Internal or external mux clock.</li> </ul> | Q68000A8635 | 9 |
|                                                                                   | SCD 55101A<br>yellow     |    |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q68000A8636 |   |
|                                                                                   | SCD 55102 A<br>super-red |    |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q68000A8637 |   |
|                                                                                   | SCD 55103 A<br>green     |    |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q68000A8638 |   |
|                                                                                   | SCD 55104 A<br>HEG*      |    |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q68000A8639 |   |

\* HEG = high efficiency green

**8-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS**

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

**8-digit wide body 5X7 Intelligent Display**

|                                                                                   |                                |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   |             |    |
|-----------------------------------------------------------------------------------|--------------------------------|---|-----|------------------|----------|---------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
|  | <b>HDSP 2110S</b><br>hyper red | 8 | 5.1 | 42.67<br>x 19.58 | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>128 ASCII character ROM,</li> <li>16 user definable characters,</li> </ul> | Q68000A8560 | 22 |
|                                                                                   | <b>HDSP 2111S</b><br>yellow    |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8561 |    |
|                                                                                   | <b>HDSP 2112S</b><br>super red |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8562 |    |
|                                                                                   | <b>HDSP 2113S</b><br>green     |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8563 |    |
|                                                                                   | <b>HDSP 2114S</b><br>HEG*      |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8564 |    |
|                                                                                   | <b>HDSP 2115S</b><br>orange    |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8907 |    |
|  | <b>PDSP 2110</b><br>Hyper red  | 8 | 5.1 | 42.67<br>x 19.58 | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>256 ASCII character ROM,</li> </ul>                                        | Q68000A8474 | 22 |
|                                                                                   | <b>PDSP 2111</b><br>yellow     |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8503 |    |
|                                                                                   | <b>PDSP 2112</b><br>super red  |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8504 |    |
|                                                                                   | <b>PDSP 2113</b><br>green      |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8505 |    |
|                                                                                   | <b>PDSP 2114</b><br>HEG*       |   |     |                  |          |                     |               |                                                         |                                                                                                                                                                                   | Q68000A8533 |    |

**8-digit 5X7 Slimline Intelligent Display**

|                                                                                     |                               |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |   |
|-------------------------------------------------------------------------------------|-------------------------------|---|-----|-----------------|----------|---------------------|---------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | <b>PDSP 1880</b><br>hyper red | 8 | 4.7 | 42.93<br>x 4.57 | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver,</li> <li>128 ASCII character ROM,</li> <li>16 user definable characters,</li> </ul>                                                                                                                                                                                                                                                                                                                                                  | Q68000A9105 | 7 |
|                                                                                     | <b>PDSP 1881</b><br>yellow    |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9106 |   |
|                                                                                     | <b>PDSP 1882</b><br>super red |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9107 |   |
|                                                                                     | <b>PDSP 1883</b><br>green     |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9108 |   |
|                                                                                     | <b>PDSP 1884</b><br>HEG*      |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9109 |   |
|  | <b>SCE 5780</b><br>hyper red  | 8 | 4.7 | 42.93<br>x 4.57 | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Readable from 8 Feet (2.5 meters)</li> <li>Programmable Features: <ul style="list-style-type: none"> <li>Clear Function</li> <li>Eight Dimming Levels</li> <li>Peak Current Select (12.5% or Full Peak Current)</li> <li>Prescaler Function (External Oscillator Divided by 16 or 1)</li> <li>Internal or External Clock.</li> </ul> </li> </ul> | Q68000A9100 | 6 |
|                                                                                     | <b>SCE 5781</b><br>yellow     |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9101 |   |
|                                                                                     | <b>SCE 5782</b><br>super red  |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9102 |   |
|                                                                                     | <b>SCE 5783</b><br>green      |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9103 |   |
|                                                                                     | <b>SCE 5784</b><br>HEG*       |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68000A9104 |   |
|                                                                                     | <b>SCE 5786</b><br>InGaAlP    |   |     |                 |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Q68100A1435 |   |

\* HEG = high efficiency green

**8-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS**

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

**8-digit Slimline 5X5 Intelligent Display**

|                                                                                   |                               |   |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |             |   |
|-----------------------------------------------------------------------------------|-------------------------------|---|------|----------------|--------|---------------------|---------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | <b>SCD 5580A</b><br>hyper red | 8 | 3.68 | 38.1<br>x 3.68 | Serial | ±50/<br>±65<br>deg. | 25<br>(5 x 5) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>• Optimum display surface efficiency,</li> <li>• Lower Power - 30% less than 5X7 dot matrix,</li> <li>• High speed serial data input - 5MHz,</li> <li>• Readable from 6 feet (1.8 meters),</li> <li>• Attributes: <ul style="list-style-type: none"> <li>– 200-bit RAM for user definable characters</li> <li>– Eight dimming levels,</li> <li>– Power down</li> </ul> </li> </ul> | Q68100A0994 | 8 |
|                                                                                   | <b>SCD 5581A</b><br>yellow    |   |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           | Q68100A0996 |   |
|                                                                                   | <b>SCD 5582A</b><br>super red |   |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           | Q68100A0997 |   |
|                                                                                   | <b>SCD 5583A</b><br>green     |   |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           | Q68100A0998 |   |
|                                                                                   | <b>SCD 5584A</b><br>HEG*      |   |      |                |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           | Q68100A1000 |   |

\* HEG = high efficiency green

**4-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS**

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

**4-digit wide body 5X7 Intelligent Displays**

|                                                                                    |                             |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        |             |    |
|------------------------------------------------------------------------------------|-----------------------------|---|-------|------------------|----------|---------------------|---------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
|   | <b>PD 2435</b><br>super red | 4 | 5.1   | 25.4<br>x 17.78  | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external mux clock.</li> <li>End stackable.</li> </ul>                                                                       | Q68000A3561 | 19 |
|                                                                                    | <b>PD 2436</b><br>hyper red |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8366 |    |
|                                                                                    | <b>PD 2437</b><br>green     |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A3562 |    |
|   | <b>PD 3535</b><br>super red | 4 | 6.86  | 35.56<br>x 18.29 | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external mux clock.</li> <li>End stackable.</li> </ul>                                                                       | Q68000A7964 | 20 |
|                                                                                    | <b>PD 3536</b><br>hyper red |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8365 |    |
|                                                                                    | <b>PD 3537</b><br>green     |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A7965 |    |
|  | <b>PD 4435</b><br>super red | 4 | 11.43 | 38.1<br>x 20.83  | Parallel | ±55/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Reflector product produces large solid pixels with no cross-talk.</li> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>3 dimming levels plus blank</li> <li>Blinking cursor, character, lamp test functions</li> <li>Internal or external clock</li> <li>end stackable.</li> </ul> | Q68000A8367 | 21 |
|                                                                                    | <b>PD 4436</b><br>hyper red |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8368 |    |
|                                                                                    | <b>PD 4437</b><br>green     |   |       |                  |          |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8369 |    |

**4-digit domino series 5X7 Intelligent Displays**

|                                                                                     |                              |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           |              |    |
|-------------------------------------------------------------------------------------|------------------------------|---|-----|------------------|----------|---------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----|
|  | <b>DLR 1414</b><br>hyper red | 4 | 3.7 | 17.78<br>x 20.32 | Parallel | ±50/<br>±75<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul> | Q68000A8091  | 15 |
|                                                                                     | <b>DLO 1414</b><br>super red |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000A8092  |    |
|                                                                                     | <b>DLG 1414</b><br>green     |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000A8093  |    |
|  | <b>DLR 2416</b><br>hyper red | 4 | 5   | 25.40<br>x 20.32 | Parallel | ±50/<br>±75<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul> | Q68000A8094  | 16 |
|                                                                                     | <b>DLO 2416</b><br>super red |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000A8095  |    |
|                                                                                     | <b>DLG 2416</b><br>green     |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000A8096  |    |
|                                                                                     | <b>DLS 2416</b><br>blue      |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q65110A1251  |    |
|  | <b>DLR 3416</b><br>hyper red | 4 | 6.9 | 33.02<br>x 20.32 | Parallel | ±50/<br>±75<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Built-in CMOS decoder, multiplexer, memory and driver, 128 ASCII character ROM.</li> <li>End stackable.</li> </ul> | Q68000-A8097 | 17 |
|                                                                                     | <b>DLO 3416</b><br>super red |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000-A8098 |    |
|                                                                                     | <b>DLG 3416</b><br>green     |   |     |                  |          |                     |               |                                                         |                                                                                                                                                           | Q68000-A8099 |    |

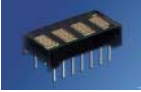
4-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS

| Packages | Type/<br>Color | # of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|--------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|--------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

4-digit wide body serial interface 5X7 Intelligent Displays

|                                                                                   |                       |   |      |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |    |
|-----------------------------------------------------------------------------------|-----------------------|---|------|------------------|--------|---------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
|  | SCF 5740<br>hyper red | 4 | 6.85 | 33.02<br>x 20.17 | Serial | ±55/<br>±55<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features: <ul style="list-style-type: none"> <li>Clear Function</li> <li>Eight Dimming Levels</li> <li>Peak Current Select (12.5% or Full Peak Current)</li> <li>Prescaler Function (External Oscillator Divided by 16 or 1)</li> <li>Internal or External Clock.</li> </ul> </li> </ul> | Q68000A8848 | 18 |
|                                                                                   | SCF 5741<br>yellow    |   |      |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68000A8900 |    |
|                                                                                   | SCF 5742<br>super red |   |      |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68000A8901 |    |
|                                                                                   | SCF 5743<br>green     |   |      |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68000A8902 |    |
|                                                                                   | SCF 5744<br>HEG*      |   |      |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68000A8903 |    |

4-digit Slimline 5X7 Intelligent Displays

|                                                                                     |                           |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   |             |   |
|-------------------------------------------------------------------------------------|---------------------------|---|------|------------------|----------------|---------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|   | SLR 2016<br>hyper red     | 4 | 4.72 | 19.91<br>x 10.54 | Parallel       | ±50/<br>±75<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Optimum display surface efficiency</li> <li>Very close multi-line spacing, 0.4" centers.</li> <li>128 special ASCII character ROM</li> <li>Clear function that clears character memory</li> <li>True blanking for intensity dimming applications</li> </ul>                                | Q68000A8640 | 2 |
|                                                                                     | SLO 2016<br>super red     |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8641 |   |
|                                                                                     | SLG 2016<br>green         |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8642 |   |
|                                                                                     | SLY 2016<br>yellow        |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8643 |   |
|  | HDSP 2000 LP<br>hyper red | 4 | 3.7  | 17.75<br>x 8.89  | Shift register | ±50/<br>±75<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial input. Easily cascaded for multiple displays.</li> <li>Built-in low power CMOS shift register and constant current LED row drivers.</li> <li>External column strobing allows use of standard and custom alphanumeric fonts.</li> <li>Blanking input for dimming control.</li> </ul> | Q68000A8131 | 5 |
|                                                                                     | HDSP 2001 LP<br>yellow    |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8304 |   |
|                                                                                     | HDSP 2002 LP<br>super red |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8132 |   |
|                                                                                     | HDSP 2003 LP<br>green     |   |      |                  |                |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                   | Q68000A8133 |   |

4-digit Slimline 5X7 Intelligent Displays with serial interface

|                                                                                     |                       |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |   |
|-------------------------------------------------------------------------------------|-----------------------|---|-----|------------------|-------------------------------------|---------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | SCE 5740<br>hyper red | 4 | 4.7 | 19.91<br>x 10.54 | Serial with dual inline leads (DIP) | ±50/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features: <ul style="list-style-type: none"> <li>Clear Function</li> <li>Eight Dimming Levels</li> <li>Peak Current Select (12.5% or Full Peak Current)</li> <li>Prescaler Function (External Oscillator Divided by 16 or 1)</li> <li>Internal or External Clock.</li> </ul> </li> </ul> | Q68100A1369 | 3 |
|                                                                                     | SCE 5741<br>yellow    |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68100A1370 |   |
|                                                                                     | SCE 5742<br>super red |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68100A1371 |   |
|                                                                                     | SCE 5743<br>green     |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68100A1372 |   |
|                                                                                     | SCE 5744<br>HEG*      |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68100A1373 |   |
|                                                                                     | SCE 5745<br>orange    |   |     |                  |                                     |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Q68100A1374 |   |

\* HEG = high efficiency green



4-DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

4-digit Slimline 5X7 Intelligent Displays with serial interface and single-inline leads (SIP)

|                                                                                   |                               |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |   |
|-----------------------------------------------------------------------------------|-------------------------------|---|-----|------------------|---------------------------------------------------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | <b>SCE 5741P</b><br>yellow    | 4 | 4.7 | 19.91<br>x 10.54 | Serial with straight single inline leads<br>(SIP) | ±50/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68100A1479 | 3 |
|                                                                                   | <b>SCE 5742P</b><br>super red |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1480 |   |
|                                                                                   | <b>SCE 5743P</b><br>green     |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1481 |   |
|                                                                                   | <b>SCE 5744P</b><br>HEG*      |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1482 |   |
|                                                                                   | <b>SCE 5745P</b><br>orange    |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1483 |   |

4-digit Slimline 5X7 Intelligent Displays with serial interface and 90 degree form single inline leads (Q-SIP)

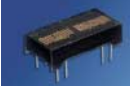
|                                                                                     |                               |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |   |
|-------------------------------------------------------------------------------------|-------------------------------|---|-----|------------------|-----------------------------------------------------------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|
|  | <b>SCE 5740Q</b><br>hyper red | 4 | 4.7 | 19.91<br>x 10.54 | Serial with 90 degree<br>form single inline leads (Q-SIP) | ±50/<br>±65<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68100-A1440 | 3 |
|                                                                                     | <b>SCE 5741Q</b><br>yellow    |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100-A1484 |   |
|                                                                                     | <b>SCE 5742Q</b><br>super red |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100-A1485 |   |
|                                                                                     | <b>SCE 5743Q</b><br>green     |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100-A1486 |   |
|                                                                                     | <b>SCE 5744Q</b><br>HEG*      |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100-A1487 |   |
|                                                                                     | <b>SCE 5745Q</b><br>orange    |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100-A1488 |   |

\* HEG = high efficiency green

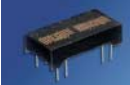
4-DIGIT VERTICAL & SQUARE FORMAT PLASTIC PACKAGE DISPLAYS

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

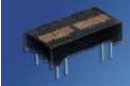
4-digit Vertical Format Intelligent Displays

|                                                                                   |                               |   |     |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |   |
|-----------------------------------------------------------------------------------|-------------------------------|---|-----|------------------|--------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
|  | <b>SCDV 5540</b><br>hyper red | 4 | 3.2 | 10.54<br>x 19.91 | Serial | ±55/<br>±55<br>deg. | 25<br>(5 x 5) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68000A8890 | 4 |
|                                                                                   | <b>SCDV 5541</b><br>yellow    |   |     |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8891 |   |
|                                                                                   | <b>SCDV 5542</b><br>super red |   |     |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8892 |   |
|                                                                                   | <b>SCDV 5543</b><br>green     |   |     |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8893 |   |
|                                                                                   | <b>SCDV 5544</b><br>HEG*      |   |     |                  |        |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68000A8894 |   |

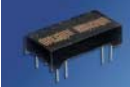
4-digit Square Format Intelligent Displays with straight single inline leads (SIP)

|                                                                                    |                                |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |   |
|------------------------------------------------------------------------------------|--------------------------------|---|-----|------------------|---------------------------------------------------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|
|  | <b>SCDQ 5541P</b><br>yellow    | 4 | 3.6 | 19.91<br>x 10.54 | Serial with straight single<br>inline leads (SIP) | ±55/<br>±55<br>deg. | 25<br>(5 x 5) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68100A1472P | 4 |
|                                                                                    | <b>SCDQ 5542P</b><br>super red |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1078P |   |
|                                                                                    | <b>SCDQ 5543P</b><br>green     |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473P |   |
|                                                                                    | <b>SCDQ 5544P</b><br>HEG*      |   |     |                  |                                                   |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473P |   |

4-digit Square Format Intelligent Displays with 90 degree bend single inline leads (Q-SIP)

|                                                                                     |                                |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |   |
|-------------------------------------------------------------------------------------|--------------------------------|---|-----|------------------|-----------------------------------------------------------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|
|  | <b>SCDQ 5541Q</b><br>yellow    | 4 | 3.6 | 19.91<br>x 10.54 | Serial with 90 degree bend<br>single inline leads (Q-SIP) | ±55/<br>±55<br>deg. | 25<br>(5 x 5) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68100A1472Q | 4 |
|                                                                                     | <b>SCDQ 5542Q</b><br>super red |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1078Q |   |
|                                                                                     | <b>SCDQ 5543Q</b><br>green     |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473Q |   |
|                                                                                     | <b>SCDQ 5544Q</b><br>HEG*      |   |     |                  |                                                           |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473Q |   |

4-digit Square Format Intelligent Displays with molex connector

|                                                                                     |                                |   |     |                  |                             |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |   |
|-------------------------------------------------------------------------------------|--------------------------------|---|-----|------------------|-----------------------------|---------------------|---------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|
|  | <b>SCDQ 5541R</b><br>yellow    | 4 | 3.6 | 19.91<br>x 10.54 | Serial with Molex connector | ±55/<br>±55<br>deg. | 25<br>(5 x 5) | Operating<br>-40 to +85 °C<br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"> <li>Serial Input, Dot Addressable Display. Ideal for User Defined Characters</li> <li>Built-in Decoders, Multiplexers and LED Drivers</li> <li>Programmable Features:                             <ul style="list-style-type: none"> <li>– Clear Function</li> <li>– Eight Dimming Levels</li> <li>– Peak Current Select (12.5% or Full Peak Current)</li> <li>– Prescaler Function (External Oscillator Divided by 16 or 1)</li> </ul> </li> </ul> | Q68100A1472R | 4 |
|                                                                                     | <b>SCDQ 5542R</b><br>super red |   |     |                  |                             |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1078R |   |
|                                                                                     | <b>SCDQ 5543R</b><br>green     |   |     |                  |                             |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473R |   |
|                                                                                     | <b>SCDQ 5544R</b><br>HEG*      |   |     |                  |                             |                     |               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q68100A1473R |   |

\* HEG = high efficiency green

SINGLE DIGIT PLASTIC PACKAGE INTELLIGENT DISPLAYS

| Packages | Type/<br>Color | #. of<br>characters | Character<br>height<br>[mm] | Package size<br>[mm] | Interface type | Viewing angle<br>x-/y-axis | # of dots per<br>character | Temperature<br>range | Features | Order Code | Figure |
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|
|----------|----------------|---------------------|-----------------------------|----------------------|----------------|----------------------------|----------------------------|----------------------|----------|------------|--------|

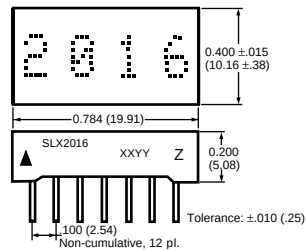
Single digit Intelligent Displays

|                                                                                   |                              |   |      |                  |          |             |               |                                                             |                                                                                                                                                                                                                                                                                                     |             |    |             |  |  |             |    |
|-----------------------------------------------------------------------------------|------------------------------|---|------|------------------|----------|-------------|---------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|-------------|--|--|-------------|----|
|  | <b>DLO 7135</b><br>super red | 1 | 17.3 | 17.78<br>x 20.32 | Parallel | ±55<br>deg. | 35<br>(5 x 7) | Operating<br>-40 to +85 °C<br><br>Storage<br>-40 to +100 °C | <ul style="list-style-type: none"><li>• Built-in CMOS decoder, multiplexer, memory and driver,</li><li>• Reflector product produces large solid pixels with no cross-talk.</li><li>• 4 programmable brightness levels.</li><li>• Built-in 96 ASCII character ROM.</li><li>• XY stackable.</li></ul> | Q68000A7157 | 24 |             |  |  |             |    |
|                                                                                   | <b>DLG 7137</b><br>green     |   |      |                  |          |             |               |                                                             |                                                                                                                                                                                                                                                                                                     |             |    | Q68000A7159 |  |  |             |    |
|  | <b>DLO 4135</b><br>super red |   | 10.9 | 12.7<br>x 25.40  |          |             |               |                                                             |                                                                                                                                                                                                                                                                                                     |             |    |             |  |  | Q68000A4297 | 23 |
|                                                                                   | <b>DLG 4137</b><br>green     |   |      |                  |          |             |               |                                                             |                                                                                                                                                                                                                                                                                                     |             |    |             |  |  |             |    |

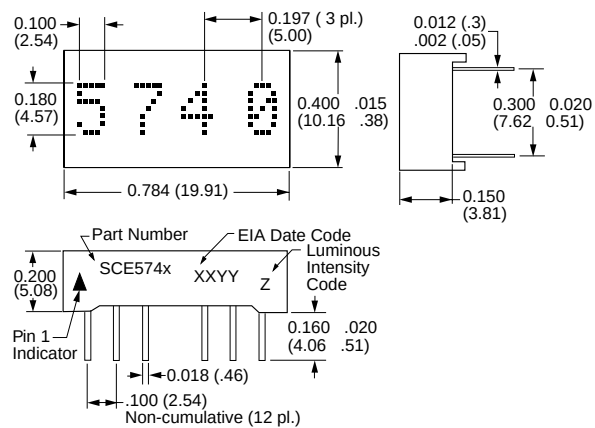
**Maßbilder** in inch (mm)

**Outline drawings** dimensions in inch (mm)

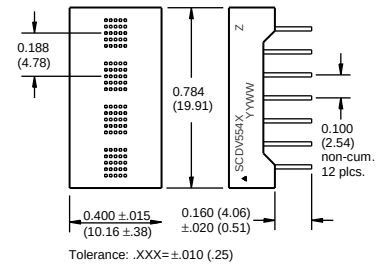
**Figure 2      SLX 2016**



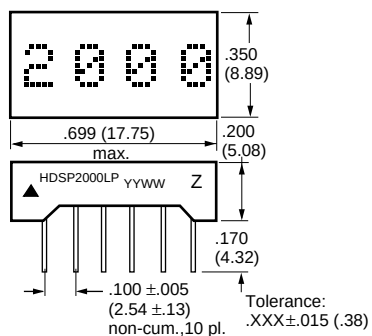
**Figure 3      SCE 574X**



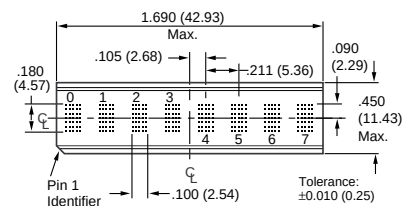
**Figure 4      SCDV 554X**



**Figure 5 HDSP 200X**



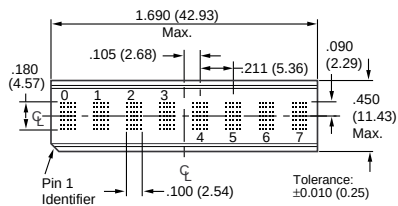
**Figure 6      SCE 578X**



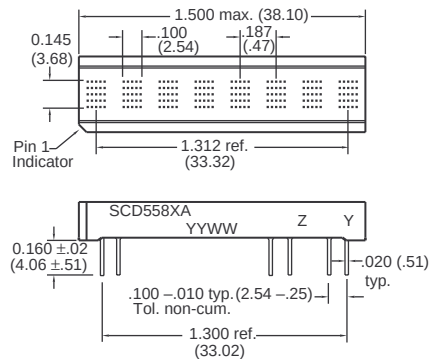
**Maßbilder** in inch (mm)

**Outline drawings** dimensions in inch (mm)

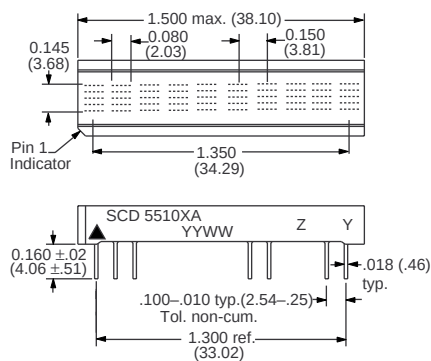
**Figure 7 PDSP 188X**



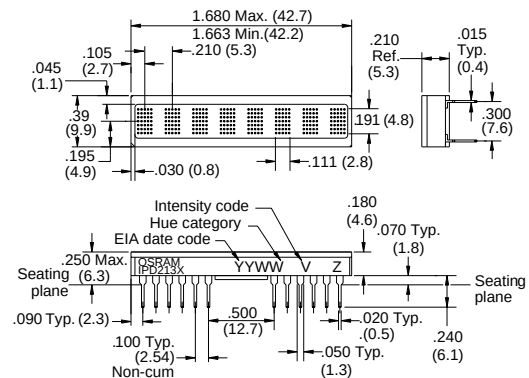
**Figure 8      SCD 558XA**



**Figure 9      SCD 5510XA**



**Figure 10**    **IPD 213X**



**Figure 11**    **ISD 235X**

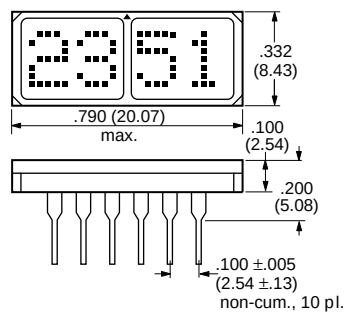
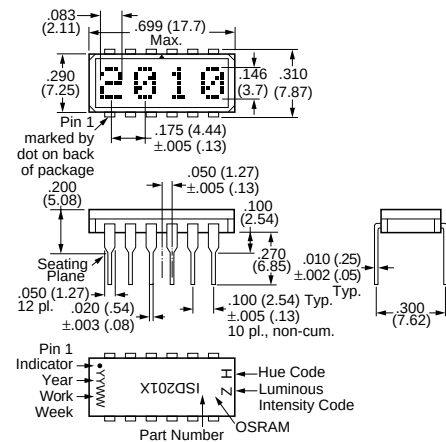


Figure 12 ISD 201X



Maßbilder in inch (mm)

Outline drawings dimensions in inch (mm)

Figure 13 ISD 231X

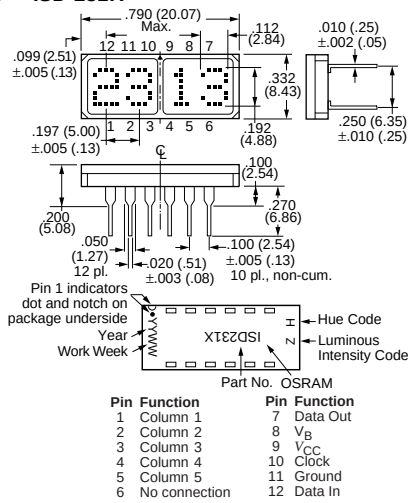


Figure 14 IPD 2545 A, IPD 2547 A

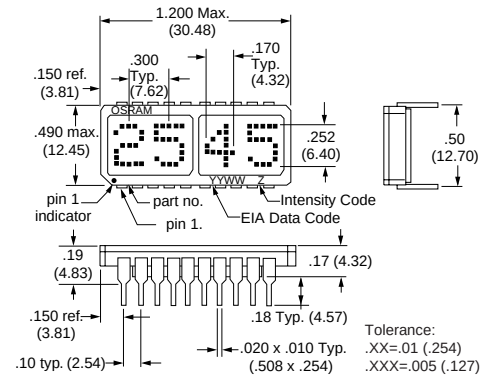


Figure 15 DLX 1414

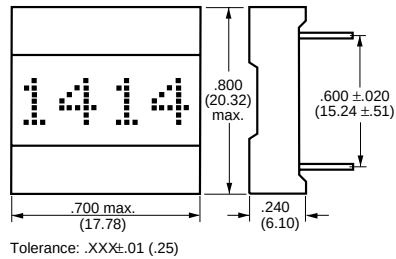


Figure 16 DLX 2416

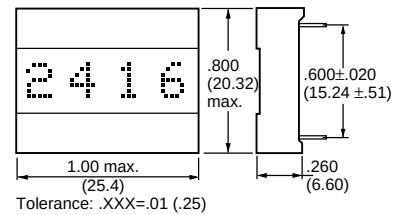


Figure 17 DLX 3416

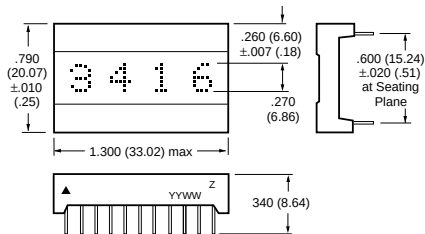
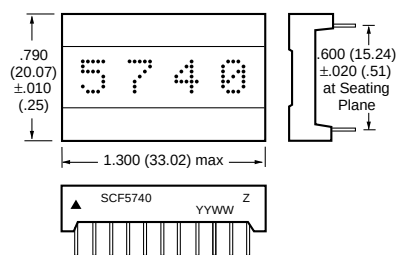


Figure 18 SCF 574X



Maßbilder in inch (mm)

Outline drawings dimensions in inch (mm)

Figure 19 PD 2435, PD 2436, PD 2437

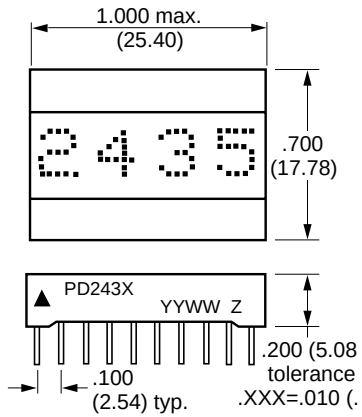


Figure 20 PD 3535, PD 3536, PD 3537

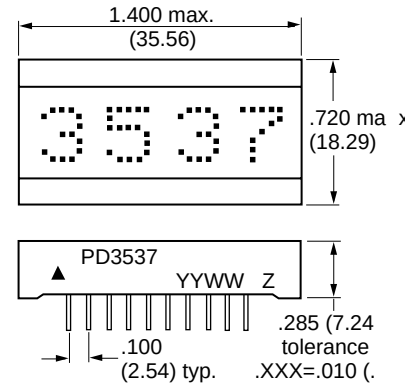


Figure 21 PD 4435, PD 4436, PD 4437

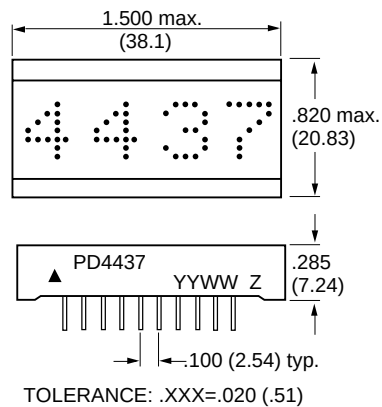


Figure 22 PDSP 211X, HDSP 211X

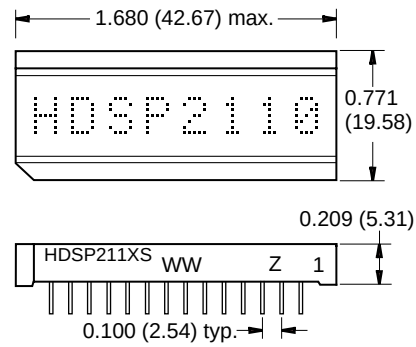


Figure 23 DLO 4135, DLG 4137

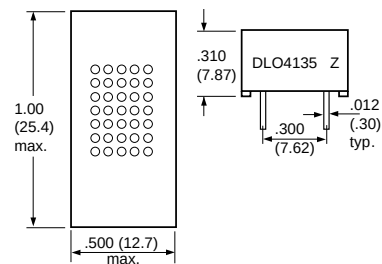


Figure 24 DLO 7135, DLG 7137

