

## **8K x 8 Power-Switched and Reprogrammable PROM**

### **Features**

- 5V  $\pm 10\%$  VCC, commercial, industrial and military
- Windowed Packages available for reprogrammability
- OTP (One-Time-Programmable) Packages available
- High speed
  - 20 ns (commercial)
  - 25 ns (military)
- CMOS for optimum speed/power
- Slim 300-mil or standard 600-mil packaging available
- Direct replacement for Cypress PROMs
- Direct replacement for bipolar PROMs
- EPROM technology 100% programmable
- Low power
  - 660 mW (commercial and military)
- Super Low standby power
  - 220 mW (QP7C261)
- TTL-compatible I/O

### **General Description**

The QP7C261, QP7C263, and QP7C264 are high-performance 8192-word by 8-bit CMOS PROMs. When deselected, the QP7C261 automatically powers down into a low-power standby mode. The QP7C263 and QP7C264 do not power down when deselected.

The QP7C261 is available in a 300-mil-wide DIP package. The QP7C263 and QP7C264 are packaged in 300-mil-wide DIP and 600-mil-wide DIP packages respectively. Flatpack, Cerpack, LCC, PLCC and LLCC package options are available.

The memory cells utilize proven EPROM floating-gate technology and byte-wide intelligent programming algorithms. The QP7C261, QP7C263, and QP7C264 are plug-in replacements for Cypress PROMs and a wide variety of bipolar PROMs. When used to replace bipolar PROMs they offer the advantages of lower power, superior performance and programming yield.

The EPROM cell requires only 12.5V for the supervoltage and low current requirements allow for gang programming. The EPROM cells allow for each memory location to be tested 100%, as each location is written into, erased, and exercised prior to assembly. Each PROM is also tested for AC performance to guarantee that after customer programming the product will meet DC and AC specification limits.

A Read is accomplished by placing an active LOW signal on CS. The contents of the memory location addressed by the address lines (A0–A12) become available on the output lines (O0–O7).

The devices are available in windowed packages (Erasable when exposed to UV light) and are also available in non-windowed OTP (One-Time-Programmable) hermetic and plastic packages.

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*QP Semiconductor products are not authorized for use in any space applications. The inclusion of QP Semiconductor products in space applications implies that the space application manufacturer assumes all risk of such use and in doing so indemnifies QP Semiconductor against all charges.*

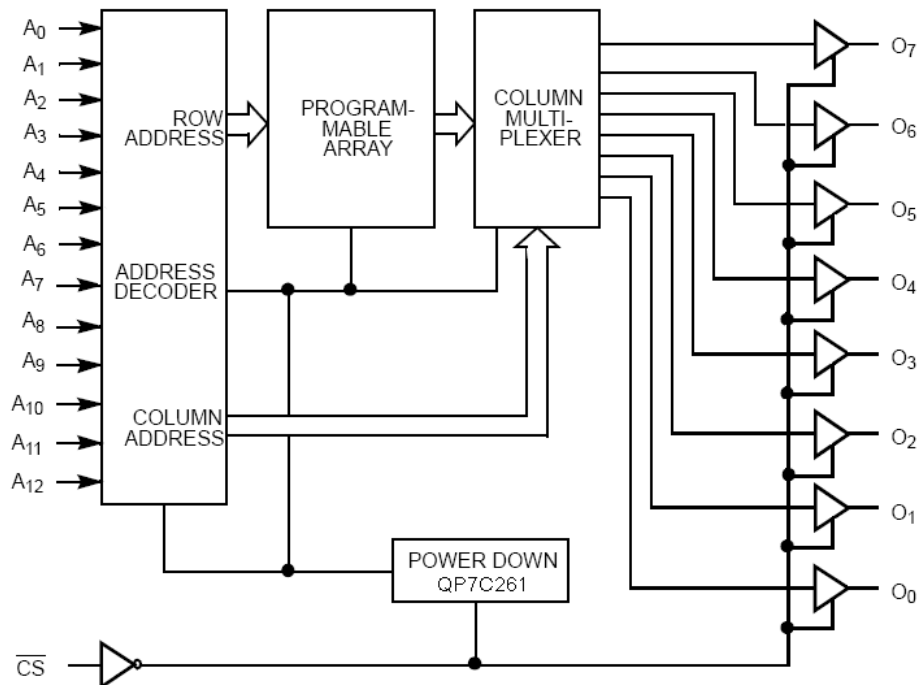
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## Connection Diagrams

|                                                                                                                                                                                                                                            | CerDIP/PDIP/Cerpack 24 Lead | LLCC/LCC/PLCC |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|
| QP7C261<br>QP7C263<br>QP7C264<br><br>Hermetic Packages available in both Erasable (Windowed) and OTP – One-Time-Programmable (Non-Windowed) versions.<br><br>Molded Plastic Packages (PDIP/PLCC) are only available as OTP (Non-Windowed). |                             |               |

## Block Diagram

QP7C261  
 QP7C263  
 QP7C264



**Absolute Maximum Ratings**

Stresses above the AMR may cause permanent damage, extended operation at AMR may degrade performance and affect reliability

| Condition                                     |              | Units                             | Notes |
|-----------------------------------------------|--------------|-----------------------------------|-------|
| Supply Voltage to Ground                      | -0.5 to 7.0  | Volts                             | /1    |
| DC Voltage Applied to Outputs in High Z State | -0.5 to 7.0  | Volts                             | /1    |
| DC Input Voltage                              | -3.0V to 7.0 | Volts                             | /1    |
| DC Program Voltage                            | 13.0         | Volts                             |       |
| UV Exposure                                   | 7258         | W <sub>SEC</sub> /cm <sup>2</sup> |       |
| Storage Temperature                           | -65 to +155  | °C                                |       |
| Ambient Temperature with Power Applied        | -55 to +125  | °C                                | /2    |
| Junction Temperature                          | 150          | °C                                | /3 /4 |

**Recommended Operating Conditions**

| Condition                              |              | Units    | Notes      |
|----------------------------------------|--------------|----------|------------|
| Supply Voltage Range                   | 4.5 to 5.5   | Volts DC | 5V ± 10%   |
| Case Operating Range (T <sub>c</sub> ) | -0°C to +70  | °C       | Commercial |
| Case Operating Range (T <sub>c</sub> ) | -40°C to +85 | °C       | Industrial |
| Case Operating Range (T <sub>c</sub> ) | -55 to +125  | °C       | Military   |

**Notes:**

Apply to Absolute Maximum, Recommended Operating Conditions and Electrical Performance Characteristics.

/1 – The Voltage on any input or I/O pin cannot exceed the power pin during power-up.

/2 – T<sub>A</sub> is the “instant on” case temperature.

/3– Applies to all versions, but is critical for molded plastic products. T<sub>J</sub> above listed limits can activate mold compound flame retardant.

/4 – Maximum T<sub>J</sub> is not to be exceeded.

/5 – V<sub>CC</sub> 4.5 to 5.5 Volts

/6 – For Test Purposes, not more than one output at a time should be shorted. Short circuit test duration should not exceed 30 seconds.

**TABLE I – ELECTRICAL PERFORMANCE CHARACTERISTICS**

| Test                | Symbol          | Conditions /5<br>Case Operating Range (°C)      | Min | Max             | Unit |
|---------------------|-----------------|-------------------------------------------------|-----|-----------------|------|
| Output Voltage High |                 |                                                 |     |                 |      |
| QP7C26x-20 & 25     | V <sub>OH</sub> | V <sub>CC</sub> = 4.5V, I <sub>OH</sub> =-2.0mA | 2.4 |                 | V    |
| QP7C26x-35, 45 & 55 | V <sub>OH</sub> | V <sub>CC</sub> = 4.5V, I <sub>OH</sub> =-4.0mA | 2.4 |                 | V    |
| Output Voltage Low  |                 |                                                 |     |                 |      |
| QP7C26x-20 & 25     | V <sub>OL</sub> | V <sub>CC</sub> = 4.5V, I <sub>OL</sub> =8.0mA  |     | 0.4             | V    |
| QP7C26x-35, 45 & 55 | V <sub>OL</sub> | V <sub>CC</sub> = 4.5V, I <sub>OL</sub> =16.0mA |     | 0.4             | V    |
| Input High Voltage  | V <sub>IH</sub> | Guaranteed Input logical High for all inputs    | 2.0 | V <sub>CC</sub> | V    |
| Input Low Voltage   | V <sub>IL</sub> | Guaranteed Input logical Low for all inputs     |     | 0.8             | V    |

**TABLE I – ELECTRICAL PERFORMANCE CHARACTERISTICS**

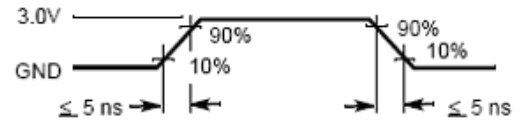
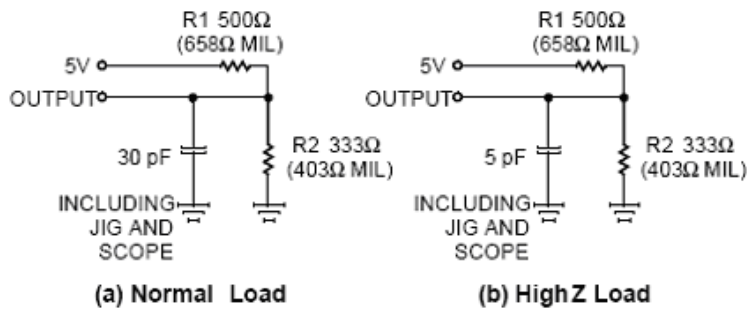
| Test                              | Symbol    | Conditions /5<br>Case Operating Range (°C)         | Min  | Max | Unit    |
|-----------------------------------|-----------|----------------------------------------------------|------|-----|---------|
| Input Load Current                | $I_{IX}$  | $GND \leq V_{OUT} \leq V_{CC}$                     | -10  | 10  | $\mu A$ |
| Output Leakage Current            | $I_{OZ}$  | $GND \leq V_{IN} \leq V_{CC}$ Com'l                | -10  | 10  | $\mu A$ |
|                                   |           | Output Disabled Mil                                | -40  | 40  | $\mu A$ |
| Output Short Circuit Current /6   | $I_{OS}$  | $V_{CC} = 5.5V, V_{OUT} = GND$                     | -20  | -90 | mA      |
| Operating Supply Current          | $I_{CC}$  | $V_{CC} = 5.5V, I_{OUT} = 0\text{ mA}$             |      |     |         |
|                                   |           | 20ns Commercial                                    |      | 120 | mA      |
|                                   |           | 25ns Commercial                                    |      | 120 | mA      |
|                                   |           | 35ns Commercial                                    |      | 100 | mA      |
|                                   |           | 45ns Commercial                                    |      | 100 | mA      |
|                                   |           | 55ns Commercial                                    |      | 100 | mA      |
|                                   |           | 25ns Military                                      |      | 140 | mA      |
|                                   |           | 35ns Military                                      |      | 120 | mA      |
|                                   |           | 45ns Military                                      |      | 120 | mA      |
|                                   |           | 55ns Military                                      |      | 120 | mA      |
| Standby Supply Current<br>QP7C261 | $I_{SB}$  | $V_{CC} = 5.5V, I_{OUT} = 0\text{ mA}$             |      |     |         |
|                                   |           | 20ns Commercial                                    |      | 40  | mA      |
|                                   |           | 25ns Commercial                                    |      | 40  | mA      |
|                                   |           | 35ns Commercial                                    |      | 30  | mA      |
|                                   |           | 45ns Commercial                                    |      | 30  | mA      |
|                                   |           | 55ns Commercial                                    |      | 30  | mA      |
|                                   |           | 25ns Military                                      |      | 40  | mA      |
|                                   |           | 35ns Military                                      |      | 30  | mA      |
|                                   |           | 45ns Military                                      |      | 30  | mA      |
|                                   |           | 55ns Military                                      |      | 30  | mA      |
| Programming Supply Voltage        | $V_{PP}$  |                                                    | 12   | 13  | V       |
| Programming Supply Current        | $I_{PP}$  |                                                    |      | 50  | mA      |
| Input High Programming Voltage    | $V_{IHP}$ |                                                    | 4.75 |     | V       |
| Input Low Programming Voltage     | $V_{ILP}$ |                                                    |      | 0.4 | V       |
| Input Capacitance                 | $C_{IN}$  | $T_A = 25^\circ C, f = 1\text{MHz}, V_{CC} = 5.0V$ |      | 10  | pF      |
| Output Capacitance                | $C_{OUT}$ | $T_A = 25^\circ C, f = 1\text{MHz}, V_{CC} = 5.0V$ |      | 10  | pF      |
| Address to Output Valid           | $t_{AA}$  | QP7C26x-20                                         |      | 20  | nS      |

**TABLE I – ELECTRICAL PERFORMANCE CHARACTERISTICS**

| Test                                                    | Symbol             | Conditions /5<br>Case Operating Range (°C) | Min | Max | Unit |
|---------------------------------------------------------|--------------------|--------------------------------------------|-----|-----|------|
|                                                         |                    | QP7C26x -25                                |     | 25  | nS   |
|                                                         |                    | QP7C26x -35                                |     | 35  | nS   |
|                                                         |                    | QP7C26x -45                                |     | 45  | nS   |
|                                                         |                    | QP7C26x -55                                |     | 55  | nS   |
| Chip Select Inactive to High Z<br>(QP7C263 and QP7C264) | T <sub>HZCS1</sub> | QP7C26x -20                                |     | 12  | nS   |
|                                                         |                    | QP7C26x -25                                |     | 12  | nS   |
|                                                         |                    | QP7C26x -35                                |     | 20  | nS   |
|                                                         |                    | QP7C26x -45                                |     | 30  | nS   |
|                                                         |                    | QP7C26x -55                                |     | 35  | nS   |
| Chip Select Inactive to High Z<br>(QP7C261)             | T <sub>HZCS2</sub> | QP7C261-20                                 |     | 20  | nS   |
|                                                         |                    | QP7C261-25                                 |     | 25  | nS   |
|                                                         |                    | QP7C261-35                                 |     | 35  | nS   |
|                                                         |                    | QP7C261-45                                 |     | 45  | nS   |
|                                                         |                    | QP7C261-55                                 |     | 55  | nS   |
| Chip Select Active to Output<br>(QP7C263 and QP7C264)   | T <sub>ACS1</sub>  | QP7C26x -20                                |     | 12  | nS   |
|                                                         |                    | QP7C26x -25                                |     | 12  | nS   |
|                                                         |                    | QP7C26x -35                                |     | 20  | nS   |
|                                                         |                    | QP7C26x -45                                |     | 30  | nS   |
|                                                         |                    | QP7C26x -55                                |     | 35  | nS   |
| Chip Select Active to Output<br>(QP7C261)               | T <sub>ACS2</sub>  | QP7C261-20                                 |     | 20  | nS   |
|                                                         |                    | QP7C261-25                                 |     | 25  | nS   |
|                                                         |                    | QP7C26135                                  |     | 35  | nS   |
|                                                         |                    | QP7C261-45                                 |     | 45  | nS   |
|                                                         |                    | QP7C261-55                                 |     | 55  | nS   |
| Chip Select Active to Power-Up<br>(QP7C261)             | T <sub>PU</sub>    | QP7C261-All T <sub>AA</sub>                | 0   |     | nS   |
| Chip Select Inactive to Power-<br>Down (QP7C261)        | T <sub>PU</sub>    | QP7C261-20                                 |     | 20  | nS   |
|                                                         |                    | QP7C261-25                                 |     | 25  | nS   |
|                                                         |                    | QP7C26135                                  |     | 35  | nS   |
|                                                         |                    | QP7C261-45                                 |     | 45  | nS   |
|                                                         |                    | QP7C261-55                                 |     | 55  | nS   |

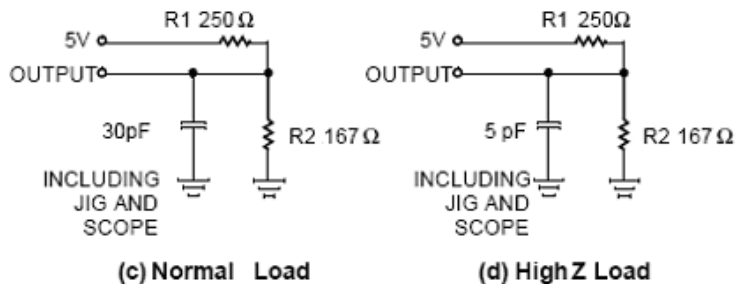
## AC Test Loads

### Test Load for -20 through -30 speeds



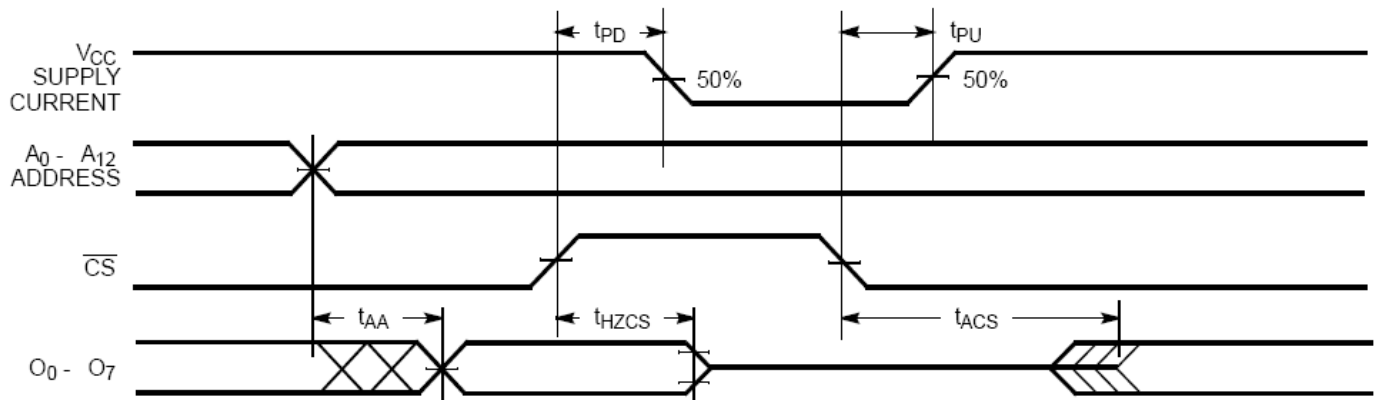
Equivalent to: THÉVENIN EQUIVALENT  
 $R_{TH} 200\Omega$  (250 $\Omega$  MIL)  
 OUTPUT  $\circ$   $\text{---} R_{TH} \text{---} \circ$  2.0V (1.9V MIL)

### Test Load for -35 through -55 speeds



Equivalent to: THÉVENIN EQUIVALENT  
 $R_{TH} 100\Omega$   
 OUTPUT  $\circ$   $\text{---} R_{TH} \text{---} \circ$  2.0V

## Waveforms



## Operating Modes

### Read

Read is the normal operating mode for programmed device. In this mode, all signals are normal TTL levels. The PROM is addressed with a 13-bit field, a chip select, (active LOW), is applied to the CS pin, and the contents of the addressed location appear on the data out pins.

### Program, Program Inhibit, Program Verify

These modes are entered by placing a high voltage  $V_{PP}$  on pin 19, with pins 18 and 20 set to VILP. In this state, pin 21 becomes a latch signal, allowing the upper 5 address bits to be latched into an onboard register, pin 22 becomes an active LOW program (PGM) signal and pin 23 becomes an active LOW verify (VFY) signal. Pins 22 and 23 should never be active LOW at the same time. The PROGRAM mode exists when PGM is LOW, and VFY is HIGH. The verify mode exists when the

reverse is true, PGM HIGH and VFY LOW and the program inhibit mode is entered with both PGM and VFY HIGH. Program inhibit is specifically provided to allow data to be placed on and removed from the data pins without conflict

| Mode Selection         | Pin Function /7 /8 |                 |                  |                  |                  |                   |                                |
|------------------------|--------------------|-----------------|------------------|------------------|------------------|-------------------|--------------------------------|
| Read or Output Disable | A <sub>12</sub>    | A <sub>11</sub> | A <sub>10</sub>  | A <sub>9</sub>   | A <sub>8</sub>   | CS <sub>BAR</sub> | O <sub>7</sub> -O <sub>0</sub> |
| Program                | na                 | V <sub>PP</sub> | Latch            | PGM              | VFY              | CS <sub>BAR</sub> | D <sub>7</sub> -D <sub>0</sub> |
| Read                   | A <sub>12</sub>    | A <sub>11</sub> | A <sub>10</sub>  | A <sub>9</sub>   | A <sub>8</sub>   | V <sub>IL</sub>   | O <sub>7</sub> -O <sub>0</sub> |
| Output Disable         | A <sub>12</sub>    | A <sub>11</sub> | A <sub>10</sub>  | A <sub>9</sub>   | A <sub>8</sub>   | V <sub>IH</sub>   | High Z                         |
| Program                | V <sub>ILP</sub>   | V <sub>PP</sub> | V <sub>ILP</sub> | V <sub>ILP</sub> | V <sub>IHP</sub> | V <sub>ILP</sub>  | D <sub>7</sub> -D <sub>0</sub> |
| Program Inhibit        | V <sub>ILP</sub>   | V <sub>PP</sub> | V <sub>ILP</sub> | V <sub>IHP</sub> | V <sub>IHP</sub> | V <sub>ILP</sub>  | High Z                         |
| Program Verify         | V <sub>ILP</sub>   | V <sub>PP</sub> | V <sub>ILP</sub> | V <sub>IHP</sub> | V <sub>ILP</sub> | V <sub>ILP</sub>  | O <sub>7</sub> -O <sub>0</sub> |
| Blank Check Zeros      | V <sub>ILP</sub>   | V <sub>PP</sub> | V <sub>ILP</sub> | V <sub>IHP</sub> | V <sub>ILP</sub> | V <sub>ILP</sub>  | O <sub>7</sub> -O <sub>0</sub> |

/7 – X = "Don't Care", but not to exceed VCC +5%

/8 – Addresses A8-A12 must be latched through lines A0-A4 in programming modes

### Erase Characteristics:

Wavelengths of light less than 4000 Angstroms begin to erase these PROMs. For this reason, an opaque label should be placed over the window if the PROM is exposed to sunlight or fluorescent lighting for extended periods of time.

The recommended dose of ultraviolet light for erasure is a wavelength of 2537 Angstroms for a minimum dose (UV intensity x exposure time of 25 Wsec/cm<sup>2</sup>. For an ultraviolet lamp with a 12 mW/cm<sup>2</sup> power rating, the exposure time would be approximately 35 minutes. These PROMs need to be within 1 inch of the lamp during erasure. Permanent damage may result if the PROM is exposed to high-intensity UV light for an extended period of time.

7258 Wsec/cm<sup>2</sup> is the recommended maximum dosage.

### Programming Information:

The QP7C261, QP7C263 and QP7C264 program using the same programming algorithm as Cypress 7C261, 7C263 and 7C264 devices. A variety of programming equipment currently supports the Cypress Algorithm. QP Semiconductor has verified that the devices program on Data I/O Unisite and on a programmer supplied by EETools.

### Ordering Information

| Temp Range | t <sub>AA</sub> ns | Part Number  | Package                         | Mil-Std-1835 | Generic |
|------------|--------------------|--------------|---------------------------------|--------------|---------|
| Commercial | 20                 | QP7C261-20JC | 28-Lead PLCC                    |              | 7C261   |
| Commercial | 20                 | QP7C261-20PC | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Commercial | 20                 | QP7C261-20WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Commercial | 20                 | QP7C263-20JC | 28-Lead PLCC                    |              | 7C263   |
| Commercial | 20                 | QP7C263-20PC | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Commercial | 20                 | QP7C263-20WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Commercial | 25                 | QP7C261-25JC | 28-Lead PLCC                    |              | 7C261   |
| Commercial | 25                 | QP7C261-25PC | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Commercial | 25                 | QP7C261-25WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Commercial | 25                 | QP7C263-25JC | 28-Lead PLCC                    |              | 7C263   |
| Commercial | 25                 | QP7C263-25PC | 24-Lead 300-mil Windowed CerDIP |              | 7C263   |
| Commercial | 25                 | QP7C263-25WC | 24-Lead 300-mil Plastic DIP     | GDIP3-T24    | 7C263   |
| Commercial | 25                 | QP7C264-25PC | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Commercial | 25                 | QP7C264-25WC | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |

| Temp Range | t <sub>AA</sub><br>ns | Part Number  | Package                         | Mil-Std-1835 | Generic |
|------------|-----------------------|--------------|---------------------------------|--------------|---------|
| Commercial | 35                    | QP7C261-35JC | 28-Lead PLCC                    |              | 7C261   |
| Commercial | 35                    | QP7C261-35PC | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Commercial | 35                    | QP7C261-35WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Commercial | 35                    | QP7C263-35JC | 28-Lead PLCC                    |              | 7C263   |
| Commercial | 35                    | QP7C263-35PC | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Commercial | 35                    | QP7C263-35WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Commercial | 35                    | QP7C264-35PC | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Commercial | 35                    | QP7C264-35WC | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Commercial | 45                    | QP7C261-45JC | 28-Lead PLCC                    |              | 7C261   |
| Commercial | 45                    | QP7C261-45PC | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Commercial | 45                    | QP7C261-45WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Commercial | 45                    | QP7C263-45JC | 28-Lead PLCC                    |              | 7C263   |
| Commercial | 45                    | QP7C263-45PC | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Commercial | 45                    | QP7C263-45WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Commercial | 45                    | QP7C264-45PC | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Commercial | 45                    | QP7C264-45WC | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Commercial | 55                    | QP7C261-55JC | 28-Lead PLCC                    |              | 7C261   |
| Commercial | 55                    | QP7C261-55PC | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Commercial | 55                    | QP7C261-55WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Commercial | 55                    | QP7C263-55JC | 28-Lead PLCC                    |              | 7C263   |
| Commercial | 55                    | QP7C263-55PC | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Commercial | 55                    | QP7C263-55WC | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Commercial | 55                    | QP7C264-55PC | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Commercial | 55                    | QP7C264-55WC | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Industrial | 20                    | QP7C261-20JI | 28-Lead PLCC                    |              | 7C261   |
| Industrial | 20                    | QP7C261-20PI | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Industrial | 20                    | QP7C261-20WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Industrial | 20                    | QP7C263-20JI | 28-Lead PLCC                    |              | 7C263   |
| Industrial | 20                    | QP7C263-20PI | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Industrial | 20                    | QP7C263-20WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Industrial | 25                    | QP7C261-25DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Industrial | 25                    | QP7C261-25JI | 28-Lead PLCC                    |              | 7C261   |
| Industrial | 25                    | QP7C261-25KI | 24-Lead Flatpack                | GDIP2-F24    | 7C261   |
| Industrial | 25                    | QP7C261-25LI | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Industrial | 25                    | QP7C261-25PI | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Industrial | 25                    | QP7C261-25QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Industrial | 25                    | QP7C261-25TI | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C261   |
| Industrial | 25                    | QP7C261-25WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Industrial | 25                    | QP7C263-25DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Industrial | 25                    | QP7C263-25JI | 28-Lead PLCC                    |              | 7C263   |
| Industrial | 25                    | QP7C263-25KI | 24-Lead Flatpack                | GDIP2-F24    | 7C263   |
| Industrial | 25                    | QP7C263-25LI | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Industrial | 25                    | QP7C263-25PI | 24-Lead 300-mil Windowed CerDIP |              | 7C263   |
| Industrial | 25                    | QP7C263-25QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Industrial | 25                    | QP7C263-25TI | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C263   |
| Industrial | 25                    | QP7C263-25WI | 24-Lead 300-mil Plastic DIP     | GDIP3-T24    | 7C263   |
| Industrial | 25                    | QP7C264-25DI | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |

| Temp Range | t <sub>AA</sub> ns | Part Number  | Package                         | Mil-Std-1835 | Generic |
|------------|--------------------|--------------|---------------------------------|--------------|---------|
| Industrial | 25                 | QP7C264-25PI | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Industrial | 25                 | QP7C264-25WI | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Industrial | 35                 | QP7C261-35DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Industrial | 35                 | QP7C261-35JI | 28-Lead PLCC                    |              | 7C261   |
| Industrial | 35                 | QP7C261-35KI | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Industrial | 35                 | QP7C261-35LI | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Industrial | 35                 | QP7C261-35PI | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Industrial | 35                 | QP7C261-35QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Industrial | 35                 | QP7C261-35TI | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Industrial | 35                 | QP7C261-35WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Industrial | 35                 | QP7C263-35DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Industrial | 35                 | QP7C263-35JI | 28-Lead PLCC                    |              | 7C263   |
| Industrial | 35                 | QP7C263-35KI | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Industrial | 35                 | QP7C263-35LI | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Industrial | 35                 | QP7C263-35PI | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Industrial | 35                 | QP7C263-35QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Industrial | 35                 | QP7C263-35TI | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Industrial | 35                 | QP7C263-35WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Industrial | 35                 | QP7C264-35DI | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Industrial | 35                 | QP7C264-35PI | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Industrial | 35                 | QP7C264-35WI | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Industrial | 45                 | QP7C261-45DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Industrial | 45                 | QP7C261-45JI | 28-Lead PLCC                    |              | 7C261   |
| Industrial | 45                 | QP7C261-45KI | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Industrial | 45                 | QP7C261-45LI | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Industrial | 45                 | QP7C261-45PI | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Industrial | 45                 | QP7C261-45QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Industrial | 45                 | QP7C261-45TI | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Industrial | 45                 | QP7C261-45WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Industrial | 45                 | QP7C263-45DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Industrial | 45                 | QP7C263-45JI | 28-Lead PLCC                    |              | 7C263   |
| Industrial | 45                 | QP7C263-45KI | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Industrial | 45                 | QP7C263-45LI | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Industrial | 45                 | QP7C263-45PI | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Industrial | 45                 | QP7C263-45QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Industrial | 45                 | QP7C263-45TI | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Industrial | 45                 | QP7C263-45WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Industrial | 45                 | QP7C264-45DI | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Industrial | 45                 | QP7C264-45PI | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Industrial | 45                 | QP7C264-45WI | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Industrial | 55                 | QP7C261-55DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Industrial | 55                 | QP7C261-55JI | 28-Lead PLCC                    |              | 7C261   |
| Industrial | 55                 | QP7C261-55KI | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Industrial | 55                 | QP7C261-55LI | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Industrial | 55                 | QP7C261-55PI | 24-Lead 300-mil Plastic DIP     |              | 7C261   |
| Industrial | 55                 | QP7C261-55QI | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Industrial | 55                 | QP7C261-55TI | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Industrial | 55                 | QP7C261-55WI | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Industrial | 55                 | QP7C263-55DI | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |

| Temp Range | t <sub>AA</sub><br>ns | Part Number     | Package                         | Mil-Std-1835 | Generic |
|------------|-----------------------|-----------------|---------------------------------|--------------|---------|
| Industrial | 55                    | QP7C263-55JI    | 28-Lead PLCC                    |              | 7C263   |
| Industrial | 55                    | QP7C263-55KI    | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Industrial | 55                    | QP7C263-55LI    | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Industrial | 55                    | QP7C263-55PI    | 24-Lead 300-mil Plastic DIP     |              | 7C263   |
| Industrial | 55                    | QP7C263-55QI    | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Industrial | 55                    | QP7C263-55TI    | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Industrial | 55                    | QP7C263-55WI    | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Industrial | 55                    | QP7C264-55DI    | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Industrial | 55                    | QP7C264-55PI    | 24-Lead 600-mil Plastic DIP     |              | 7C264   |
| Industrial | 55                    | QP7C264-55WI    | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 25                    | 5962-87515113A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 25                    | 5962-8751511JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 25                    | 5962-8751511KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 25                    | 5962-8751511LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 25                    | 5962-87515123A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 25                    | 5962-8751512KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Military   | 25                    | 5962-8751512LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 25                    | 5962-9080304M3A | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 25                    | 5962-9080304MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Military   | 25                    | 5962-9080304MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 25                    | 5962-9080308M3A | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 25                    | 5962-9080308MJA | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 25                    | 5962-9080308MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Military   | 25                    | 5962-9080308MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 25                    | QP7C261-25DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 25                    | QP7C261-25KMB   | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Military   | 25                    | QP7C261-25LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 25                    | QP7C261-25QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 25                    | QP7C261-25TMB   | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Military   | 25                    | QP7C261-25WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 25                    | QP7C263-25DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 25                    | QP7C263-25KMB   | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Military   | 25                    | QP7C263-25LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 25                    | QP7C263-25QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 25                    | QP7C263-25TMB   | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 25                    | QP7C263-25WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 25                    | QP7C264-25DMB   | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 25                    | QP7C264-25WMB   | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 35                    | 5962-87515073A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 35                    | 5962-8751507KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Military   | 35                    | 5962-8751507LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 35                    | 5962-87515083A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 35                    | 5962-8751508JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 35                    | 5962-8751508KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 35                    | 5962-8751508LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 35                    | 5962-9080303M3A | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 35                    | 5962-9080303MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Military   | 35                    | 5962-9080303MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 35                    | 5962-9080307M3A | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 35                    | 5962-9080307MJA | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 35                    | 5962-9080307MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |

| Temp Range | t <sub>AA</sub> ns | Part Number     | Package                         | Mil-Std-1835 | Generic |
|------------|--------------------|-----------------|---------------------------------|--------------|---------|
| Military   | 35                 | 5962-9080307MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 35                 | QP7C261-35DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 35                 | QP7C261-35KMB   | 24-Lead Flatpack                | GDIP2-F24    | 7C261   |
| Military   | 35                 | QP7C261-35LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 35                 | QP7C261-35QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 35                 | QP7C261-35TMB   | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C261   |
| Military   | 35                 | QP7C261-35WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 35                 | QP7C263-35DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 35                 | QP7C263-35KMB   | 24-Lead Flatpack                | GDIP2-F24    | 7C263   |
| Military   | 35                 | QP7C263-35LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 35                 | QP7C263-35QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 35                 | QP7C263-35TMB   | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C263   |
| Military   | 35                 | QP7C263-35WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 35                 | QP7C264-35DMB   | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 35                 | QP7C264-35WMB   | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 45                 | 5962-87515013A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 45                 | 5962-87515013C  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 45                 | 5962-8751501JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 45                 | 5962-8751501KA  | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C263   |
| Military   | 45                 | 5962-8751501LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 45                 | 5962-87515053A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 45                 | 5962-8751505KA  | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C261   |
| Military   | 45                 | 5962-8751505LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 45                 | 5962-87515093A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 45                 | 5962-8751509JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 45                 | 5962-8751509KA  | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C263   |
| Military   | 45                 | 5962-8751509LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 45                 | 5962-9080302M3A | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 45                 | 5962-9080302MKA | 24-Lead Flatpack                | GDIP2-F24    | 7C261   |
| Military   | 45                 | 5962-9080302MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 45                 | 5962-9080306M3A | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 45                 | 5962-9080306MJA | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 45                 | 5962-9080306MKA | 24-Lead Flatpack                | GDIP2-F24    | 7C263   |
| Military   | 45                 | 5962-9080306MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 45                 | QP7C261-45DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 45                 | QP7C261-45KMB   | 24-Lead Flatpack                | GDIP2-F24    | 7C261   |
| Military   | 45                 | QP7C261-45LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 45                 | QP7C261-45QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 45                 | QP7C261-45TMB   | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C261   |
| Military   | 45                 | QP7C261-45WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 45                 | QP7C263-45DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 45                 | QP7C263-45KMB   | 24-Lead Flatpack                | GDIP2-F24    | 7C263   |
| Military   | 45                 | QP7C263-45LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 45                 | QP7C263-45QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 45                 | QP7C263-45TMB   | 24-Lead Windowed Flatpack       | GDIP2-F24    | 7C263   |
| Military   | 45                 | QP7C263-45WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 45                 | QP7C264-45DMB   | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 45                 | QP7C264-45WMB   | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 55                 | 5962-87515023A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 55                 | 5962-87515023C  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 55                 | 5962-8751502JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |

| Temp Range | t <sub>AA</sub> ns | Part Number     | Package                         | Mil-Std-1835 | Generic |
|------------|--------------------|-----------------|---------------------------------|--------------|---------|
| Military   | 55                 | 5962-8751502KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 55                 | 5962-8751502LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 55                 | 5962-87515063A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 55                 | 5962-8751506KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Military   | 55                 | 5962-8751506LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 55                 | 5962-87515103A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 55                 | 5962-8751510JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 55                 | 5962-8751510KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 55                 | 5962-8751510LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 55                 | 5962-9080301M3A | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 55                 | 5962-9080301MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Military   | 55                 | 5962-9080301MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 55                 | 5962-9080305M3A | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 55                 | 5962-9080305MJA | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 55                 | 5962-9080305MKA | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Military   | 55                 | 5962-9080305MLA | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 55                 | QP7C261-55DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C261   |
| Military   | 55                 | QP7C261-55KMB   | 24-Lead Flatpack                | GDFP2-F24    | 7C261   |
| Military   | 55                 | QP7C261-55LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C261   |
| Military   | 55                 | QP7C261-55QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C261   |
| Military   | 55                 | QP7C261-55TMB   | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C261   |
| Military   | 55                 | QP7C261-55WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C261   |
| Military   | 55                 | QP7C263-55DMB   | 24-Lead 300-mil CerDIP          | GDIP3-T24    | 7C263   |
| Military   | 55                 | QP7C263-55KMB   | 24-Lead Flatpack                | GDFP2-F24    | 7C263   |
| Military   | 55                 | QP7C263-55LMB   | 28-Lead LCC                     | CQCC1-N28    | 7C263   |
| Military   | 55                 | QP7C263-55QMB   | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 55                 | QP7C263-55TMB   | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 55                 | QP7C263-55WMB   | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 55                 | QP7C264-55DMB   | 24-Lead 600-mil CerDIP          | GDIP1-T24    | 7C264   |
| Military   | 55                 | QP7C264-55WMB   | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 70                 | 5962-87515033A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 70                 | 5962-87515033C  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 70                 | 5962-8751503JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 70                 | 5962-8751503KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 70                 | 5962-8751503LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |
| Military   | 90                 | 5962-87515043A  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 90                 | 5962-87515043C  | 28-Lead Windowed LCC            | CQCC1-N28    | 7C263   |
| Military   | 90                 | 5962-8751504JA  | 24-Lead 600-mil Windowed CerDIP | GDIP1-T24    | 7C264   |
| Military   | 90                 | 5962-8751504KA  | 24-Lead Windowed Flatpack       | GDFP2-F24    | 7C263   |
| Military   | 90                 | 5962-8751504LA  | 24-Lead 300-mil Windowed CerDIP | GDIP3-T24    | 7C263   |

\* denotes Lead Free Lead Finish

In addition to those products listed above, QP Semiconductor supports Industrial Temperature Range, Source Control Drawing (SCD), and custom package development for this product family.

## Notes:

Package outline information and specifications are defined by Mil-Std-1835 package dimension requirements.

Products manufactured by QP Semiconductor are compliant to the assembly, burn-in, test and quality conformance requirements of Test Methods 5004 & 5005 of Mil-Std-883 for Class B or Q devices as appropriate. The appropriate DSCC Detail Specifications define the electrical test requirements for each device.

The listed drawings, Mil-PRF-38535, Mil-Std-883 and Mil-Std-1835 are available online at <http://www.dscc.dla.mil/>

Additional information is available at our website <http://www.qpsemi.com>