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ELECTRONICS

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Jameco Part Number 878593

## FEATURES AND SPECIFICATIONS

## Features and Benefits

- Sizes 1 to 25 circuits
- 6471 is end-to-end stackable (2 housings only)
- 2695 version with or without locking ramp and polarizing ribs

## Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.04mm (.025") pins

Use With: 2695—2759, 6459 or 41572 terminals

6471—4809 terminals

Designed In: Inches

## Electrical\*

Voltage: 250V

Current: Phosphor Bronze—4.0A max.

Brass—2.5A max.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

## Mechanical\*

Contact Insertion Force: 681g (1.5 lb) max.

Contact Retention to Housing: 3.63g (8 lb) min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 200g min.

## Physical

Housing: 2695—White nylon, UL 94V-0

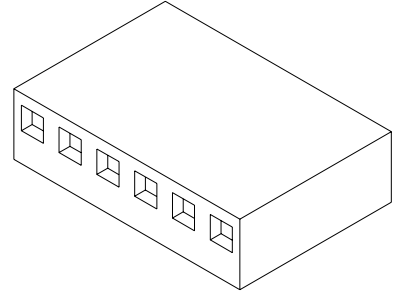
6471—White nylon, UL 94V-0

Operating Temperature: 0 to +75 °C

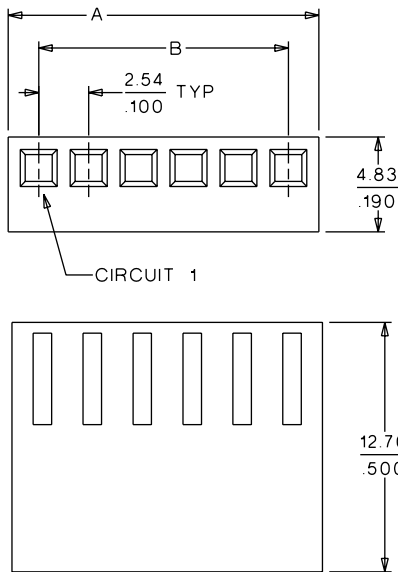


# 2.54mm (.100") Pitch KK<sup>®</sup> Crimp Terminal Housing

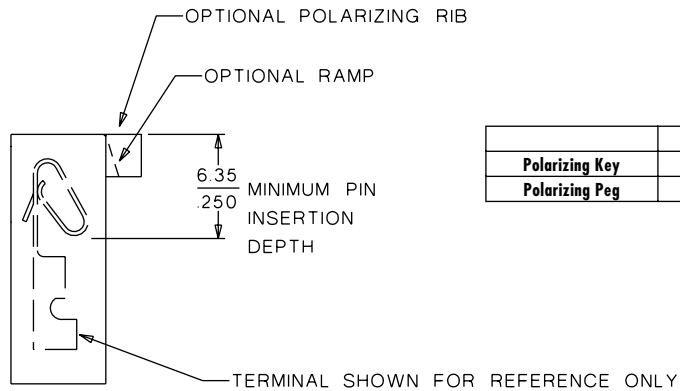
2695/6471



## CATALOG DRAWING (FOR REFERENCE ONLY)



Note: When mating polarizing rib version with breakaway friction lock header or polarizing wall series, the end friction lock or polarizing wall of header must be removed.



|                | Order No.  |
|----------------|------------|
| Polarizing Key | 15-04-9209 |
| Polarizing Peg | 15-04-9210 |

Note: 2695 shown

## ORDERING INFORMATION AND DIMENSIONS

| Circuits | Order No.         |                                       |                              |  | Dimension     |               |
|----------|-------------------|---------------------------------------|------------------------------|--|---------------|---------------|
|          | 2695              |                                       | 6471                         |  | A             | B             |
|          | With Locking Ramp | With Locking Ramp and Polarizing Ribs | Without Locking Ramp or Ribs | With Locking Ramp and Polarizing Ribs <sup>1</sup> |               |               |
| 1        |                   |                                       | • 22-01-2011                 |  | 3.10 (.122)   |               |
| 2        | • 22-01-2027      | • 22-01-3027                          | • 22-01-2021                 | 22-01-2025   | 5.60 (.220)   | 2.54 (.100)   |
| 3        | • 22-01-2037      | • 22-01-3037                          | • 22-01-2031                 | 22-01-2035   | 8.10 (.320)   | 5.08 (.200)   |
| 4        | • 22-01-2047      | • 22-01-3047                          | • 22-01-2041                 | 22-01-2045   | 10.70 (.420)  | 7.62 (.300)   |
| 5        | • 22-01-2057      | • 22-01-3057                          | • 22-01-2051                 | 22-01-2055   | 13.20 (.520)  | 10.16 (.400)  |
| 6        | • 22-01-2067      | • 22-01-3067                          | • 22-01-2061                 | 22-01-2065   | 15.80 (.620)  | 12.70 (.500)  |
| 7        | • 22-01-2077      | • 22-01-3077                          | • 22-01-2071                 | 22-01-2075   | 18.30 (.720)  | 15.24 (.600)  |
| 8        | • 22-01-2087      | • 22-01-3087                          | • 22-01-2081                 | 22-01-2085   | 20.90 (.820)  | 17.78 (.700)  |
| 9        | • 22-01-2097      | • 22-01-3097                          | • 22-01-2091                 | 22-01-2095   | 23.40 (.920)  | 20.32 (.800)  |
| 10       | • 22-01-2107      | • 22-01-3107                          | • 22-01-2101                 | 22-01-2105   | 25.90 (1.020) | 22.86 (.900)  |
| 11       | • 22-01-2117      | • 22-01-3117                          | • 22-01-2111                 | 22-01-2115   | 28.50 (1.120) | 25.40 (1.000) |
| 12       | • 22-01-2127      | • 22-01-3127                          | • 22-01-2121                 | 22-01-2125   | 31.00 (1.220) | 27.94 (1.100) |

• US Standard Product, available through Molex franchised distributors

\* When mated with Molex product only

<sup>1</sup> For circuits 19-28, contact Molex

| Circuits | Order No.         |                                       |                              |  | Dimension     |               |
|----------|-------------------|---------------------------------------|------------------------------|--|---------------|---------------|
|          | 2695              |                                       | 6471                         |  | A             | B             |
|          | With Locking Ramp | With Locking Ramp and Polarizing Ribs | Without Locking Ramp or Ribs | With Locking Ramp and Polarizing Ribs <sup>1</sup> |               |               |
| 13       | • 22-01-2137      | • 22-01-3137                          | • 22-01-2131                 | 22-01-2135   | 33.50 (1.320) | 30.48 (1.200) |
| 14       | • 22-01-2147      | • 22-01-3147                          | • 22-01-2141                 | 22-01-2145   | 36.10 (1.420) | 33.02 (1.300) |
| 15       | • 22-01-2157      | • 22-01-3157                          | • 22-01-2151                 | 22-01-2155   | 38.60 (1.520) | 35.56 (1.400) |
| 16       | • 22-01-2167      | • 22-01-3167                          | • 22-01-2161                 | 22-01-2165   | 41.20 (1.620) | 38.10 (1.500) |
| 17       | • 22-01-2177      | • 22-01-3177                          | • 22-01-2171                 | 22-01-2175   | 43.70 (1.720) | 40.64 (1.600) |
| 18       | • 22-01-2187      | • 22-01-3187                          | • 22-01-2181                 | 22-01-2185   | 46.20 (1.820) | 43.18 (1.700) |
| 19       | • 22-01-2197      | • 22-01-3197                          | • 22-01-2191                 |  | 48.80 (1.920) | 45.72 (1.800) |
| 20       | • 22-01-2207      | • 22-01-3207                          | • 22-01-2201                 |  | 51.30 (2.020) | 48.26 (1.900) |
| 21       | • 22-01-2217      | • 22-01-3217                          | • 22-01-2211                 |  | 53.90 (2.120) | 50.80 (2.000) |
| 22       | • 22-01-2227      | • 22-01-3227                          | • 22-01-2221                 |  | 56.40 (2.220) | 53.34 (2.100) |
| 23       | • 22-01-2237      | • 22-01-3237                          | • 22-01-2231                 |  | 58.90 (2.320) | 55.88 (2.200) |
| 24       | • 22-01-2247      | • 22-01-3247                          | • 22-01-2241                 |  | 61.50 (2.420) | 58.42 (2.300) |
| 25       | • 22-01-2257      | • 22-01-3257                          | • 22-01-2251                 |  | 64.00 (2.520) | 60.96 (2.400) |



# PRODUCT SPECIFICATION

## 1.0 SCOPE

This Product Specification covers the following

A. 2.50 mm centerline (pitch) 0.64 mm square pin headers

B. 2.54 mm centerline (pitch) 0.64 mm square pin headers

when mated with either printed circuit board (PCB) connectors or connectors terminated with 22 to 28 AWG wire using crimp technology.

## 2.0 PRODUCT DESCRIPTION

### 2.1 PRODUCT NAME AND SERIES NUMBERS

Crimp Terminals: 4809, 2759, 41572, 6459, 40445, 8088

Crimp Housings: 2695, 5051, 6471

PCB Connectors: 7534, 4455

Headers: 3022, 3202, 3094, 3494, 6410, 7930, 7395, 90578

Wire to board connector : 7690

Other products conforming to this specification are noted on the individual drawings.

### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Terminal Material: Brass or Phos. Bronze (for Max performance use phos bronze material.)

Housing: Nylon or Polyester

Pins: Brass or Phos. Bronze

For more information on dimensions, materials, and plating see the individual drawings.

### 2.3 SAFETY AGENCY APPROVALS

UL File Number ..... E29179

CSA .....LR19980

## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

None

## 4.0 RATINGS

### 4.1 VOLTAGE

250 Volts

**4.2 CURRENT AND APPLICABLE WIRES** (Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.)

| AWG | Amps (Max) | Outside Insulation Diameter |
|-----|------------|-----------------------------|
| 22  | 4.00       | See Drawings                |
| 24  | 3.75       | See Drawings                |
| 26  | 3.50       | See Drawings                |
| 28  | 3.00       | See Drawings                |

### 4.3 TEMPERATURE (ambient + 30° temp rise)

Operating: 0°C to +75°C

Non-operating: - 40°C to +105°C

|                      |  |   |                  |
|----------------------|--|---|------------------|
| REVISION:            | ECR/ECN INFORMATION:                       | TITLE:  | SHEET No.        |
| <b>A</b>             | EC No: E2003 -0971<br>DATE: 2003 / 03 / 18 | <b>PRODUCT SPECIFICATION<br/>2.50mm &amp; 2.54mm CENTER KK<br/>CONNECTORS</b> | <b>1 of 5</b>    |
| DOCUMENT NUMBER:     | CREATED / REVISED BY:                      | CHECKED BY:   | APPROVED BY:     |
| <b>PS-99020-0088</b> | <b>B MAGUIRE</b>                           | <b>L Kiernan</b>  | <b>M Wilhite</b> |



# PRODUCT SPECIFICATION

## 5.0 PERFORMANCE

### 5.1 ELECTRICAL REQUIREMENTS

| DESCRIPTION  | TEST CONDITION  | REQUIREMENT                          |
|--|---|--------------------------------------|
| Contact Resistance (Low Level)                     | Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.  | 10 milliohms<br>MAXIMUM<br>[initial] |
| Contact Resistance of Wire Termination (Low Level) | Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.  | 2 milliohms<br>MAXIMUM<br>[initial]  |
| Insulation Resistance                              | Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.   | 1000 Megaohms<br>MINIMUM             |
| Dielectric Withstanding Voltage                    | Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.                                  | No breakdown                         |
| Capacitance  | Measure between adjacent terminals at 1 MHz.  | 2 picofarads<br>MAXIMUM              |
| Temperature Rise (via Current Cycling)             | Mate connectors: measure the temperature rise at the rated current after:<br>1) 96 hours (steady state)<br>2) 240 hours (45 minutes ON and 15 minutes OFF per hour)<br>3) 96 hours (steady state) | Temperature rise:<br>+30°C MAXIMUM   |

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# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS

| DESCRIPTION                             | TEST CONDITION  | REQUIREMENT   |
|---|---|---|
| Connector Mate and Unmate Forces        | Per circuit when mated to a 0.635mm Sq. pin. Mate and unmate connector (male to female) at a rate of $25 \pm 6$ mm per minute.                                | 1.95 N MAXIMUM insertion force & 0.56 N MINIMUM withdrawal force                  |
| Terminal Retention Force (in Housing)   | Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm per minute. (Forces will change with platings and materials.)                   | 17.8 N MINIMUM withdrawal force   |
| Terminal Insertion Force (into Housing) | Apply an axial insertion force on the terminal at a rate of $25 \pm 6$ mm. (Forces will change with platings and materials.)                                  | 6.67 N MAXIMUM insertion force  |
| Durability                              | Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.   | 10 milliohms MAXIMUM (change from initial)  |
| Vibration (Random)                      | Mate connectors and vibrate per EIA 364-28, test condition VII.   | 10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond        |
| Shock (Mechanical)                      | Mate connectors and shock at 50 g's with $\frac{1}{2}$ sine wave (11 milliseconds) shocks in the $\pm X, \pm Y, \pm Z$ axes (18 shocks total).                | 10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond        |
| Wire Pullout Force (Axial)              | Apply an axial pullout force on the wire at a rate of $25 \pm 6$ mm. (For maximum performance use Molex application tooling with stranded tinned copper wire) | 22 awg = 44 N<br>24 awg = 35 N<br>26 awg = 26 N<br>28 awg = 17 N<br>30 awg = 13 N |
| Normal Force                            | Apply a perpendicular force.  | 2.94 N (300 grams) average  |

|                      |  |   |                  |
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# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS

| DESCRIPTION                | TEST CONDITION   | REQUIREMENT  |                           |           |    |         |           |            |    |         |           |   |
|----------------------------|--|--|---------------------------|-----------|----|---------|-----------|------------|----|---------|-----------|---|
| Shock<br>(Thermal)         | Mate connectors; expose to 5 cycles of:<br><table><tr><td><u>Temperature °C</u></td><td><u>Duration (Minutes)</u></td></tr><tr><td>-40 +0/-3</td><td>30</td></tr><tr><td>+25 ±10</td><td>5 MAXIMUM</td></tr><tr><td>+105 +3/-0</td><td>30</td></tr><tr><td>+25 ±10</td><td>5 MAXIMUM</td></tr></table> | <u>Temperature °C</u>  | <u>Duration (Minutes)</u> | -40 +0/-3 | 30 | +25 ±10 | 5 MAXIMUM | +105 +3/-0 | 30 | +25 ±10 | 5 MAXIMUM | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Visual: No Damage |
| <u>Temperature °C</u>      | <u>Duration (Minutes)</u>  |  |                           |           |    |         |           |            |    |         |           |   |
| -40 +0/-3                  | 30   |  |                           |           |    |         |           |            |    |         |           |   |
| +25 ±10                    | 5 MAXIMUM  |  |                           |           |    |         |           |            |    |         |           |   |
| +105 +3/-0                 | 30   |  |                           |           |    |         |           |            |    |         |           |   |
| +25 ±10                    | 5 MAXIMUM  |  |                           |           |    |         |           |            |    |         |           |   |
| Thermal Aging              | Mate connectors; expose to:<br>96 hours at 105 ± 2°C   | 10 milliohms MAXIMUM<br>(change from initial])<br>&<br>Visual: No Damage   |                           |           |    |         |           |            |    |         |           |   |
| Humidity<br>(Steady State) | Mate connectors: expose to a temperature of<br>40 ± 2°C with a relative humidity of 90-95%<br>for 96 hours.<br><br>Note: Remove surface moisture and air dry<br>for 1 hour prior to measurements.  | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Dielectric Withstanding<br>Voltage:<br>No Breakdown at 500 VAC<br>&<br>Insulation Resistance:<br>1000 Megaohms MINIMUM<br>&<br>Visual: No Damage |                           |           |    |         |           |            |    |         |           |   |
| Humidity<br>(Cyclic)       | Mate connectors: cycle per EIA-364-31: 24<br>cycles at temperature 25 ± 3°C at 80 ± 5%<br>relative humidity and 65 ± 3°C at 50 ± 5%<br>relative humidity; dwell time of 1.0 hour;<br>ramp time of 0.5 hours.<br><br>{Note: Remove surface moisture and air dry<br>for 1 hour prior to measurements.}   | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Dielectric Withstanding<br>Voltage:<br>No Breakdown at 500 VAC<br>&<br>Insulation Resistance:<br>1000 Megaohms MINIMUM<br>&<br>Visual: No Damage |                           |           |    |         |           |            |    |         |           |   |
| Solderability              | Per SMES-152   | Solder coverage:<br>95% MINIMUM (per<br>SMES-152)  |                           |           |    |         |           |            |    |         |           |   |

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# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS

| DESCRIPTION       | TEST CONDITION  | REQUIREMENT   |
|-------------------|---|---|
| Solder Resistance | Dip connector terminal tails in solder:<br>Solder Duration: $5 \pm 0.5$ seconds;<br>Solder Temperature: $230 \pm 5^{\circ}\text{C}$       | Visual:<br>No Damage to insulator material                              |
| Salt Spray        | Mate connectors:<br>Duration: 48 hours exposure;<br>Atmosphere: salt spray from a 5% solution;<br>Temperature: $35 +1/-2^{\circ}\text{C}$ | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Visual: No Damage |
| Cold Resistance   | Mate connectors:<br>Duration: 96 hours;<br>Temperature: $-40 \pm 3^{\circ}\text{C}$   | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Visual: No Damage |

## 6.0 PACKAGING

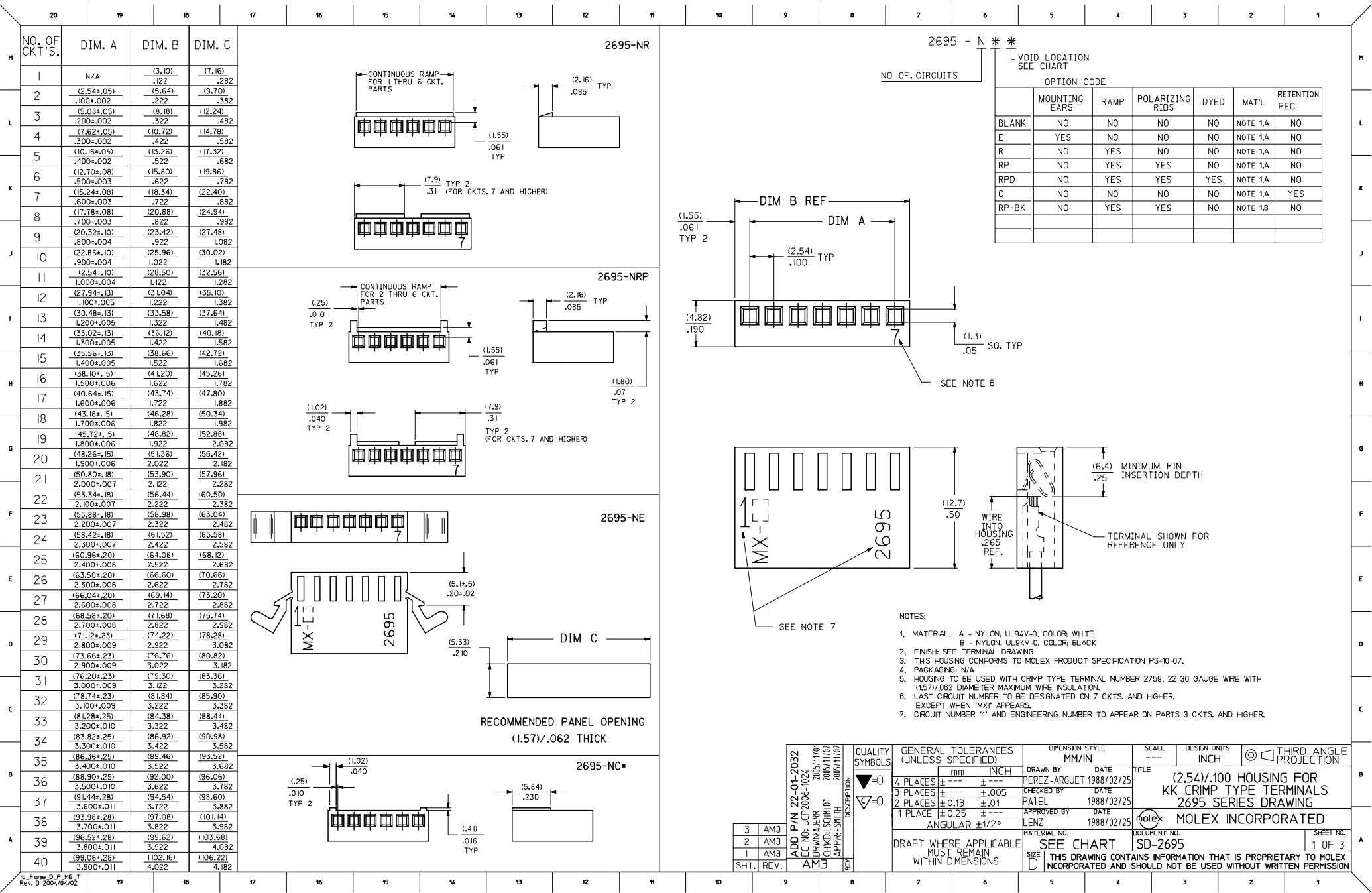
Parts shall be packaged to protect against damage during handling, transit and storage.

## 7.0 GAGES AND FIXTURES

## 8.0 OTHER

|                      |  |   |                  |
|----------------------|--|---|------------------|
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|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|--|------------|---------|------|------------|----------|------|----------|------------|------------|------------|------------|------------|-------------|------------|------------|-------------|------------|--------------|----|---|
|  | 20         | 19      | 18   | 17         | 16       | 15   | 14       | 13         | 12         | 11         | 10         | 9          | 8           | 7          | 6          | 5           | 4          | 3            | 2  | 1 |
|  | 2695-N     |         |      | 2695-NE    |          |      | 2695-NR  |            |            | 2695-NRP   |            |            | 2695-NRPD   |            |            | 2695-NRP-BK |            |              |    |   |
|  | PART NO.   | ENG NO. | VOID | PART NO.   | ENG NO.  | VOID | PART NO. | ENG NO.    | VOID       | PART NO.   | ENG NO.    | VOID       | PART NO.    | ENG NO.    | VOID       | PART NO.    | ENG NO.    | VOID         |    |   |
|  | 22-01-201I | 2695-1  |      |            | 2695-1E  |      |          | 2695-1R    |            |            | N/A        | 2695-1RP   |             | N/A        | 2695-1RPD  |             | 50-29-1557 | 2695-2RP-BK  |    |   |
|  | 22-01-202I | 2695-2  |      | 22-01-2022 | 2695-2E  |      |          | 2695-2R    |            |            | 22-01-3027 | 2695-2RP   |             |            | 2695-2RPD  |             | 50-29-1558 | 2695-3RP-BK  |    |   |
|  | 22-01-203I | 2695-3  |      | 22-01-2032 | 2695-3E  |      |          | 2695-3R    |            |            | 22-01-3037 | 2695-3RP   |             |            | 2695-3RPD  |             | 50-29-1559 | 2695-4RP-BK  |    |   |
|  | 22-01-204I | 2695-4  |      |            | 2695-4E  |      |          | 2695-4R    |            |            | 22-01-3047 | 2695-4RP   |             |            | 2695-4RPD  |             | 50-29-1560 | 2695-5RP-BK  |    |   |
|  | 22-01-205I | 2695-5  |      |            | 2695-5E  |      |          | 2695-5R    |            |            | 22-01-3057 | 2695-5RP   |             | 22-32-205I | 2695-5RPD  |             | 50-29-1561 | 2695-6RP-BK  |    |   |
|  | 22-01-206I | 2695-6  |      |            | 2695-6E  |      |          | 2695-6R    |            |            | 22-01-3067 | 2695-6RP   |             |            | 2695-6RPD  |             | 50-29-1562 | 2695-7RP-BK  |    |   |
|  | 22-01-207I | 2695-7  |      | 22-01-2072 | 2695-7E  |      |          | 2695-7R    |            |            | 22-01-3077 | 2695-7RP   |             |            | 2695-7RPD  |             | 50-29-1563 | 2695-8RP-BK  |    |   |
|  | 22-01-208I | 2695-8  |      |            | 2695-8E  |      |          | 2695-8R    |            |            | 22-01-3087 | 2695-8RP   |             |            | 2695-8RPD  |             | 50-29-1564 | 2695-9RP-BK  |    |   |
|  | 22-01-209I | 2695-9  |      |            | 2695-9E  |      |          | 2695-9R    |            |            | 22-01-3097 | 2695-9RP   |             |            | 2695-9RPD  |             | 50-29-1565 | 2695-10RP-BK |    |   |
|  | 22-01-210I | 2695-10 |      |            | 2695-10E |      |          | 2695-10R   |            |            | 22-01-3107 | 2695-10RP  |             | 22-32-210I | 2695-10RPD |             | 50-29-1566 | 2695-11RP-BK |    |   |
|  | 22-01-211I | 2695-11 |      |            | 2695-11E |      |          | 2695-11R   |            |            | 22-01-3117 | 2695-11RP  |             |            | 2695-11RPD |             | 50-29-1567 | 2695-12RP-BK |    |   |
|  | 22-01-212I | 2695-12 |      |            | 2695-12E |      |          | 2695-12R   |            |            | 22-01-3127 | 2695-12RP  |             |            | 2695-12RPD |             | 50-29-1568 | 2695-13RP-BK |    |   |
|  | 22-01-213I | 2695-13 |      |            | 2695-13E |      |          | 2695-13R   |            |            | 22-01-3137 | 2695-13RP  |             |            | 2695-13RPD |             | 50-29-1569 | 2695-14RP-BK |    |   |
|  | 22-01-214I | 2695-14 |      |            | 2695-14E |      |          | 2695-14R   |            |            | 22-01-3147 | 2695-14RP  |             |            | 2695-14RPD |             | 50-29-1570 | 2695-15RP-BK |    |   |
|  | 22-01-215I | 2695-15 |      |            | 2695-15E |      |          | 2695-15R   |            |            | 22-01-3157 | 2695-15RP  |             |            | 2695-15RPD |             | 50-29-1571 | 2695-16RP-BK |    |   |
|  | 22-01-216I | 2695-16 |      |            | 2695-16E |      |          | 2695-16R   |            |            | 22-01-3167 | 2695-16RP  |             |            | 2695-16RPD |             | 50-29-1572 | 2695-17RP-BK |    |   |
|  | 22-01-217I | 2695-17 |      |            | 2695-17E |      |          | 2695-17R   |            |            | 22-01-3177 | 2695-17RP  |             |            | 2695-17RPD |             | 50-29-1573 | 2695-18RP-BK |    |   |
|  | 22-01-218I | 2695-18 |      |            | 2695-18E |      |          | 2695-18R   |            |            | 22-01-3187 | 2695-18RP  |             |            | 2695-18RPD |             | 50-29-1574 | 2695-19RP-BK |    |   |
|  | 22-01-219I | 2695-19 |      |            | 2695-19E |      |          | 2695-19R   |            |            | 22-01-3197 | 2695-19RP  |             |            | 2695-19RPD |             | 50-29-1575 | 2695-20RP-BK |    |   |
|  | 22-01-220I | 2695-20 |      |            | 2695-20E |      |          | 2695-20R   |            |            | 22-01-3207 | 2695-20RP  |             |            | 2695-20RPD |             | 50-29-1576 | 2695-21RP-BK |    |   |
|  | 22-01-221I | 2695-21 |      |            | 2695-21E |      |          | 2695-21R   |            |            | 22-01-3217 | 2695-21RP  |             |            | 2695-21RPD |             | 50-29-1577 | 2695-22RP-BK |    |   |
|  | 22-01-222I | 2695-22 |      |            | 2695-22E |      |          | 2695-22R   |            |            | 22-01-3227 | 2695-22RP  |             |            | 2695-22RPD |             | 50-29-1578 | 2695-23RP-BK |    |   |
|  | 22-01-223I | 2695-23 |      |            | 2695-23E |      |          | 2695-23R   |            |            | 22-01-3237 | 2695-23RP  |             |            | 2695-23RPD |             | 50-29-1579 | 2695-24RP-BK |    |   |
|  | 22-01-224I | 2695-24 |      |            | 2695-24E |      |          | 2695-24R   |            |            | 22-01-3247 | 2695-24RP  |             |            | 2695-24RPD |             | 50-29-1580 | 2695-25RP-BK |    |   |
|  | 22-01-225I | 2695-25 |      |            | 2695-25E |      |          | 2695-25R   |            |            | 22-01-3257 | 2695-25RP  |             |            | 2695-25RPD |             | 50-29-1581 | 2695-26RP-BK |    |   |
|  | 22-01-226I | 2695-26 |      |            | 2695-26E |      |          | 2695-26R   |            |            | 22-01-3267 | 2695-26RP  |             |            | 2695-26RPD |             | 50-29-1582 | 2695-27RP-BK |    |   |
|  | 22-01-227I | 2695-27 |      |            | 2695-27E |      |          | 2695-27R   |            |            | 22-01-3277 | 2695-27RP  |             |            | 2695-27RPD |             | 50-29-1583 | 2695-28RP-BK |    |   |
|  | 22-01-228I | 2695-28 |      |            | 2695-28E |      |          | 2695-28R   |            |            | 22-01-3287 | 2695-28RP  |             |            | 2695-28RPD |             |            |              |    |   |
|  | 22-01-229I | 2695-29 |      |            | 2695-29E |      |          | 2695-29R   |            |            |            | 2695-29RP  |             |            | 2695-29RPD |             |            |              |    |   |
|  |            | 2695-30 |      |            | 2695-30E |      |          | 2695-30R   |            |            |            | 2695-30RP  |             |            | 2695-30RPD |             |            |              |    |   |
|  |            | 2695-31 |      |            | 2695-31E |      |          | 2695-31R   |            |            |            | 2695-31RP  |             |            | 2695-31RPD |             |            |              |    |   |
|  |            | 2695-32 |      |            | 2695-32E |      |          | 2695-32R   |            |            |            | 2695-32RP  |             |            | 2695-32RPD |             |            |              |    |   |
|  | 22-01-233I | 2695-33 |      |            | 2695-33E |      |          | 2695-33R   |            | 22-01-2337 | 2695-33RP  |            |             |            | 2695-33RPD |             |            |              |    |   |
|  |            | 2695-34 |      |            | 2695-34E |      |          | 2695-34R   |            |            | 2695-34RP  |            |             |            | 2695-34RPD |             |            |              |    |   |
|  |            | 2695-35 |      |            | 2695-35E |      |          | 2695-35R   |            |            | 2695-35RP  |            |             |            | 2695-35RPD |             |            |              |    |   |
|  |            | 2695-36 |      |            | 2695-36E |      |          | 2695-36R   |            |            | 2695-36RP  |            |             |            | 2695-36RPD |             |            |              |    |   |
|  |            | 2695-37 |      |            | 2695-37E |      |          | 2695-37R   |            |            | 2695-37RP  |            |             |            | 2695-37RPD |             |            |              |    |   |
|  |            | 2695-38 |      |            | 2695-38E |      |          | 2695-38R   |            |            | 2695-38RP  |            |             |            | 2695-38RPD |             |            |              |    |   |
|  |            | 2695-39 |      |            | 2695-39E |      |          | 2695-39R   |            |            | 2695-39RP  |            |             |            | 2695-39RPD |             |            |              |    |   |
|  |            | 2695-40 |      |            | 2695-40E |      |          | 2695-40R   |            |            | 2695-40RP  |            |             |            | 2695-40RPD |             |            |              |    |   |
|  |            |         |      |            |          |      |          | 22-01-2062 | 2695-06R-5 | 5          |            | 22-01-5102 | 2695-10RP-2 | 2          |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            | 22-01-5044 | 2695-4RP-3  | 3          |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            | 22-01-5103 | 2695-10RP-5 | 5          |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            | 22-01-5111 | 2695-11RP-5 | 5          |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            | 22-01-5104 | 2695-10RP-9 | 9          |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
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|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
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|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
|  |            |         |      |            |          |      |          |            |            |            |            |            |             |            |            |             |            |              |    |   |
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|  | 20       | 19       |       | 18       |          | 17    |          | 16       |       | 15       |          | 14    |          | 13       |       | 12       |          | 11    |          | 10       |       | 9        |          | 8     |          | 7        |       | 6        |          | 5     |          | 4        |       | 3        |          | 2     |          | 1        |       |
|  | 2695-NC* |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS | PART NO. | ENG. NO. | VOIDS |
|  | N/A      | 2695-1C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-2C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-3C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-4C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-5C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-6C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-7C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-8C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-9C  |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-10C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-11C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-12C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-13C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-14C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-15C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-16C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-17C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-18C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-19C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-20C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-21C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-22C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-23C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-24C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-25C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-26C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-27C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-28C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-29C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-30C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-31C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-32C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-33C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-34C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-35C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-36C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-37C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-38C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-39C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          | 2695-40C |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |
|  |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |          |          |       |