



# Series 800 Vertisocket™ w/Collet Contacts for Horizontal Mounting

## FEATURES

- DIP Packaging of LEDs, Incandescent Lamps, DIP Switches, Test Points, etc.
- Variations of Mounting Positions provide Exceptional Design Freedom
- Accepts Standard LEDs and Incandescent Displays as well as 0.500 [21.70] and 0.600 [15.24] Tall Displays

## GENERAL SPECIFICATIONS

- **STANDARD BODY MATERIAL:** black UL 94V-0 glass-filled 4/6 Nylon
- **SPACER:** fish paper (sockets with "X" 0.300 [7.62] only)
- **PIN BODY:** Brass 360 1/2-hard per UNS C36000 ASTM B16/B16M-05
- **PIN BODY PLATING:** 200μ [5.07μ] min. 93/7 Sn/Pb per ASTM B545 –OR– 200μ [5.07μ] Sn per ASTM B545 Type 1 over 100μ [2.54μ] min. Ni per SAE AMS-QQ-N-290B
- **4-FINGER COLLET CONTACT:** BeCu per UNS C17200 ASTM B194-08
- **CONTACT PLATING:** 30μ [0.76μ] min. Au per MIL-G-45204 over 50μ [1.27μ] min. Ni per SAE AMS-QQ-N-290B
- **ACCEPTS LEADS:** 0.015-0.025 [0.38-0.64] dia., 0.110-0.150 [2.79-3.81] long
- **CONTACT CURRENT RATING:** 3 amps
- **OPERATING TEMPERATURE:** -67°F to 221°F [-55°C to 105°C]
- **INSERTION FORCE:** 180g/pin, based on 0.018 [0.46] dia. test lead
- **WITHDRAWAL FORCE:** 90g/pin, based on 0.018 [0.46] dia. test lead
- **NORMAL FORCE:** 140g/pin, based on 0.018 [0.46] dia. test lead

## MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.035 ±0.002 [0.89 ±0.05] dia.



## ORDERING INFORMATION

### XX-X82 X-90C TL

Optional Pin Body Plating  
TL = Sn/Pb

Display Angle

PCB Footprint, Dim. "X"

0 = 0.100 [2.54]

2 = 0.200 [5.08]

3 = 0.300 [7.62]

Device Footprint, Dim. "C"

282 = 0.200 [5.08]

82 = 0.300 [7.62]

482 = 0.400 [10.16]

682 = 0.600 [15.24]

Pin Count & Spacing, Dim. "C"  
(See Table)

| Centers "C"   | Dim. "D"      | Body Style | Available Sizes         |
|---------------|---------------|------------|-------------------------|
| 0.200 [5.08]  | 0.300 [7.62]  | A          | 6 thru 10               |
| 0.300 [7.62]  | 0.400 [10.16] | C<br>B     | 6 thru 20<br>22 thru 40 |
| 0.600 [15.24] | 0.700 [17.78] | C<br>B     | 6 thru 40<br>42 thru 48 |



ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

FOR VERTICAL MOUNTING, SEE [DATA SHEET 13002](#)

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

CUSTOMIZATION: ARIES SPECIALIZES IN CUSTOM DESIGN AND PRODUCTION. SPECIAL MATERIALS, PLATINGS, SIZES, AND CONFIGURATIONS CAN BE FURNISHED, DEPENDING ON QUANTITY.

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