



# 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]

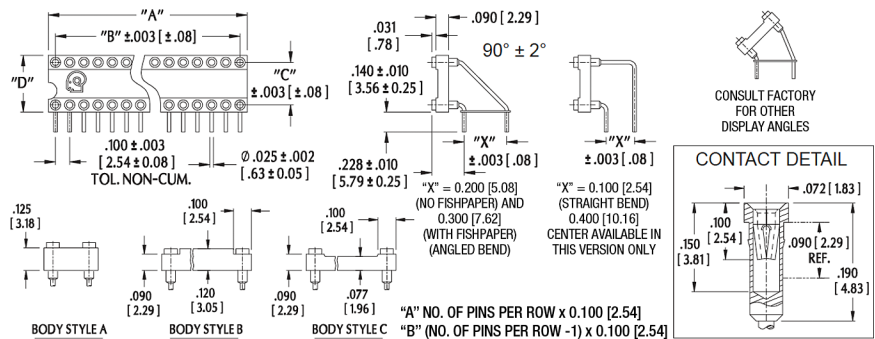
82 = 0.300 [7.62]

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       |
|               |               | C          | 6 thru 20       |
| 0.300 [7.62]  | 0.400 [10.16] | B          | 22 thru 40      |
| 0.400 [10.16] | 0.500 [12.70] | C          | 6 thru 22       |
|               |               | C          | 6 thru 40       |
| 0.600 [15.24] | 0.700 [17.78] | C          | 6 thru 40       |
|               |               | B          | 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.

ARIES RESERVES THE RIGHT TO CHANGE PRODUCT GENERAL SPECIFICATIONS WITHOUT NOTICE

PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE CONSIDERED UNCONTROLLED



**ARIES**  
ELECTRONICS, INC.

2609 Bartram Road • Bristol, PA 19007-6810 USA

TEL 215-781-9956 • FAX 215-781-9845

[WWW.ARIESELEC.COM](http://WWW.ARIESELEC.COM) • [INFO@ARIESELEC.COM](mailto:INFO@ARIESELEC.COM)



13005  
Rev. 1.2  
1 of 1