Features

- High-volume Vertical Display Mounting Applications
- Useful for Connection of Board-to-Board Jumpers and DIP Switches, as well as LED Devices

General Specifications

- **Standard Body Material**: black UL 94 V-0 4/6 Nylon
- **Bifurcated Contacts**: Grade-A spring-tempered Phosphor Bronze per QQ-B-750
- **Standard Contact Plating**: 50μ [1.27μ] min. matte Sn per ASTM B545-97 over 50μ
  - [1.27] Ni per QQ-N-290 – OR – 90/10 Sn/Pb per MIL-T-10727 Type 1 over 50μ
  - [1.27] Ni per QQN-290
- **Contact Current Rating**: 1 amp
- **Operating Temperature**: 221°F [105°C]
- **Insertion Force**: 110g/pin average
- **Withdrawal Force**: 75g/pin average
- **Flat Leads**: up to 0.014 [0.36] thick and 0.020 [0.51] wide
- **Round Leads**: up to 0.020 [0.51] dia.
- **Lead Lengths**: 0.75-0.160 [1.91-4.06] dia.

Mounting Considerations

- **Suggested PCB Hole Size**
  - For P/N 14-810-90R = 0.036 ±0.002 [0.91 ±0.05] dia.
  - For P/N XX-822-90E = 0.044 ±0.002 [1.12 ±0.05] dia.

Ordering Information

- **XX-822-90E XXXX**
  - **14-810-90R**
  - **16-810-90R**
  - **18-810-90R**
  - **20-810-90R**
  - **XX-822-90E**
  - **XX-822-90D**
  - **XX-822-90C**

Optional Rail & Plating
- WR = Without Rails
- TL = Sn/Pb
- WRTL = Without Rails, Sn/Pb

Economy Version
- Display Angle
- Series
- Pin Count

See Table

Body Style | Dim. “Y” | Dim. “Z” | Pin Count
---|---|---|---
A | 0.450 [11.43] | 0.300 [7.62] | 8, 10
B | 0.750 [19.05] | 0.600 [15.24] | 8, 10, 12, 14, 16
B | 0.850 [21.59] | 0.700 [17.78] | 8, 10
B | 0.950 [24.13] | 0.800 [20.32] | 8, 10, 12, 14, 16

All dimensions: inches [millimeters]
All tolerances: ±0.005 [0.13] unless otherwise specified
For horizontal mounting, see data sheet 13005
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 Printouts of this document may be out-of-date and should be considered uncontrolled.

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