

Series 810 and 822 Economy Model Vertisocket™ with Bifurcated Contacts

FEATURES

- These low-cost Vertisockets[™] are recommended for high-volume vertical display mounting applications
- Very useful for connection of board-to-board jumpers and for 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 (TL = 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
- ACCEPTS FLAT LEADS: up to 0.014 [0.36] thick and 0.020 [0.51] wide
- ACCEPTS ROUND LEADS: up to 0.020 [0.51] dia.
- ACCEPTS LEAD LENGTHS: 0.75-0.160 [1.91-4.06] dia.



CUSTOMIZATION: In addition to the standard products shown on this page, Aries specializes in custom design and production. Special materials, platings, sizes, and configurations can be furnished, depending on the quantity. NOTE: Aries reserves the right to change product general specifications without notice.

MOUNTING CONSIDERATIONS

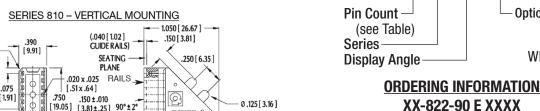
 SUGGESTED PCB HOLE SIZE: For P/N 14-810-90R = 0.036 ±0.002 [0.91 ±0.05] dia. : For P/N XX-822-90E = $0.044 \pm 0.002 \, [1.12 \pm 0.05] \, dia$.

All Tolerances ±0.005" [0.13] Unless Otherwise Specified

1.050 [26.67] (.040 [1.02] .150 [3.81] GUIDE RAILS) PIN #1 **SEATING** .250 [6.35] PLANE .020 x .025 RAILS .075 [.51x.64] [1.91] .150 ± .010 9 Ø.125 [3.16] [19.05] [3.81±.25] 90° ± 2° **ERIES** 100 ± .003 .006 ± .002 .025 ± .002 400 [2.54 ± .08 [.64±.05] [10.16] TOL. NON-CUM 100 ± .003 [2.54 ± .08] .300 ± .003 .360 TOL. NON-CUM. [7.62 ± .08] [9.14]

[.15 ± .05]

SERIES 822 - HORIZONTAL MOUNTING



Pin Count -(see Table) Series Display Angle **Economy Version**

ORDERING INFORMATION

14-810-90R XXXX

Options

Options

WR = Without Rails

WR = Without Rails

WRTL = Without Rails Sn/Pb

TL = Sn/Pb

TL = Sn/Pb

WRTL = Without Rails Sn/Pb

PIN #11.D. .300 [7.62] SEATING ±.003 .260 [6.60] [±.08] PLANE ple ple/ple ple 300 ± .003 .150 ± .010 [9.91] [7.62 ± .08] 90° ± 2° [3.81 ± .25] CONTACT DETAIL .020 X .025 [.51 X .64] .025 ± .002 .280 .100 ± .010 .160 [7.11] [.64±.05] 025 + 002 [2.54 ± .25] .125 .065 [4.06] .100 ± ,003 [.64±.05] [3.18] .006 ± .002 [1.65] [2.54 ± .08] .200 ± .003

OTHER SIZES AVAILABLE - CONSULT FACTORY

No. of Pins	Dim. "A"	Dim. "B"
8	8 .450 [11.43]	0.300 [7.62]
14	14 .750 [19.05]	0.600 [15.24]
16	16 .850 [21.59]	0.700 [17.78]]
18	18 .950 [24.13]	0.800 [20.32]
20	20 1.050 [26.67]	0.900 [22.86]



TOL. NON-CUM

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[5.08 ±.08]







13003 Rev. AA