



Series X57X - Quick-Release Universal Zero Insertion Force DIP Test Socket

ORDERING INFORMATION

XX-X57X-1X

No. of pins:
24, 28, 32, 36,
40, 42, 44, 48

Row-to-row spacing (bottom):
3=.300 [7.62]
6=.600 [15.24] (std.)

Socket fits Aries' Test
Socket Receptacle
XX-6556-XX or similar
competitors' models.
Consult Data Sheet
No. 10003.

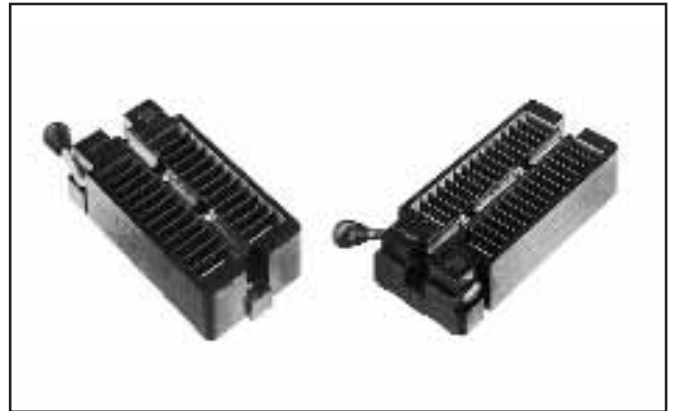
Plating:

0=Tin over Nickel
0TL=Tin/Lead over
Nickel
1=Gold over Nickel
6=Nickel Boron
Plated Spinodal
8=hi-temp. socket*

Solder tail pin

45° handle options:

0=long handle, right side
1=long handle, left side
2=short handle, right side
3=short handle, left side
4=loop handle, right side
5=loop handle, left side



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

*Note: only loop handle avail. with hi-temp. socket

Features:

- Aries' Universal Test Socket accepts devices on .300 to .600 [7.62 to 15.24] centers.
- All pin count sockets go into PCB with either .300 or .600 [7.62 to 15.24] centers.
- Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads.
- Socket handle can be mounted on either the right or left side.
- Sockets can be soldered into PCBs or plugged into any socket.

Specifications:

- Standard socket body (-10, -10TL, -11, -16 sockets) are Black UL 94V-0 Glass Filled Polyphenylene Sulfide (PPS). High-temp. socket body (-18 sockets) are Natural color Polyetheretherketone (PEEK).
- Handle is Stainless Steel.
- Handle knob is Brass Alloy 360, 1/2 hard (no knob on loop handle).
- Contact material is either:
 - 10, -10TL, -11 = Beryllium Copper Alloy 172 per QQ-C-553.
 - 16 = Spinodal Alloy
 - 18 = Beryllium Nickel Alloy 360, 1/2 hard.
- All Beryllium Copper Alloy contacts have a 50µ" [1.27µm] min. Nickel underplate per QQ-N-290, overplated with either:
 - 10 = 200µ" [5.08µm] min. Matte Tin per ASTM B545-97
 - 10TL=200µ" [5.08µm] min. 90/10 Tin/Lead per MIL-T-10727.
 - 11=10µ" [0.25µm] min. Gold per MIL-G-45204.
- Spinodal Alloy contact plating, -16=50µ" [1.27µm] min. Nickel Boron.
- Hi-temp. Beryllium Nickel contact plating, -18=50µ" [1.27µm] Nickel Boron.
- Contact current rating=1 Amp.
- Insulation resistance=1000 MOhms min.
- Dielectric withstanding voltage=1000 VAC.
- Life cycle: 25,000 to 50,000 cycles.
- Operating temp.:
 - 221°F [105°C] Tin plating,
 - 302°F [150°C] Gold plating,
 - 392°F [200°C] Nickel Boron plating.
 - 482°F [250°C] hi-temp. socket.
- Retention Force (when closed)=55 grams/pin based on a .020 [.51] diameter test lead.
- Accepts leads .015-.035 [.38-.89] wide, .110-.280 [2.79-7.11] long.

Mounting Considerations:

- See socket footprint on page 2.



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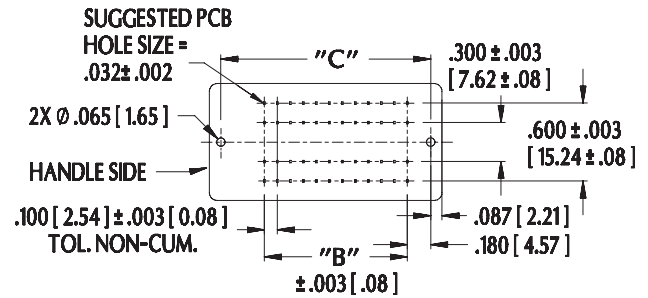
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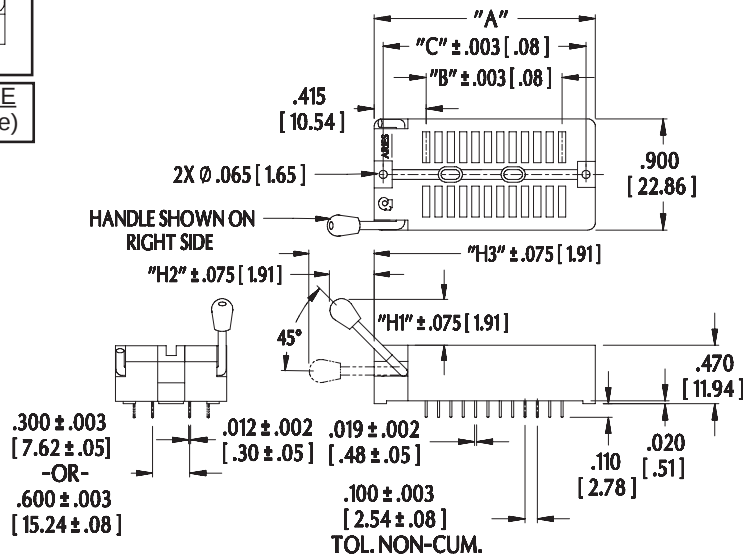
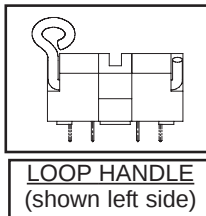
All tolerances $\pm .005$ [.13]
unless otherwise specified

ALL DIMENSIONS: INCHES [MILLIMETERS]

Handle	Dim. "H1"	Dim. "H2"	Dim. "H3"
Long w/ knob	.568 [14.43]	.471 [11.96]	.760 [19.30]
Short w/ knob	.317 [8.05]	.252 [6.40]	.435 [11.05]
Loop (no knob)	.270 [6.86]	.193 [4.90]	.405 [10.29]



Socket footprint
(top view - component side)



"A"=(NO. OF PINS PER ROW X .100 [2.54]) + .590 [14.99]
"B"=(NO. OF PINS PER ROW - 1) X .100 [2.54]
"C"=(NO. OF PINS PER ROW X .100 [2.54]) + .415 [10.54]

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