



Series 518 Open Frame Collet Sockets with Solder Tail Pins

FEATURES:

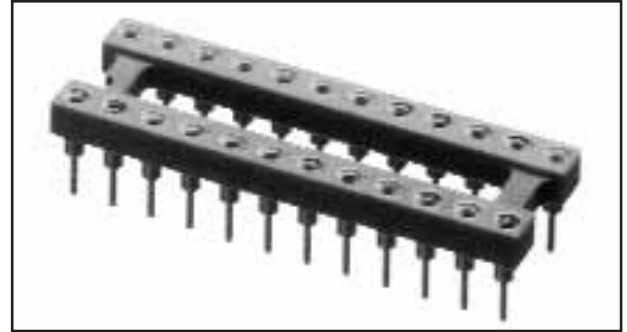
- Open frame allows for more efficient utilization of board space and better cooling.
- Choose from several pin styles.
- Compatible with automatic insertion equipment.
- Side-to-side and end-to-end stackable.

SPECIFICATIONS:

- Body material is black UL 94V-0 Glass-filled 4/6 Nylon.
- Pin body is Brass Alloy 360 1/2 hard per UNS C36000 ASTM-B16-00.
- Pin body plating is either 10μ [2.54μm] min. Gold per MIL-G-45204 or 200μ [5.08μm] min. 93/7 Tin/Lead per ASTM B545 or 200μ [5.08μm] min Tin per ASTM B545 Type 1 over 100μ [2.54μm] min. Nickel per SAE-AMS-QQ-N-290.
- 4-fingered collet contact is Beryllium Copper Alloy per UNS C17200 ASTM-B194-01.
- Contact plating is either 200μ [5.08μm] min. 93/7 Tin/Lead per ASTM B545 or 200μ [5.08μm] min Tin per ASTM B545 Type 1 or 10μ [2.54μm] Gold per MIL-G-45204 over 50μ min. [1.27μm] Nickel per SAE-AMS-QQ-N-290. Heavy 30μ [7.62μm] Gold plating also available.
- Contact current rating=3 Amps.
- Operating temperature=221°F [105°C] Tin & Tin/Lead plating, =257°F [125°C] Gold plating.
- Insertion Force=180 grams/pin; Withdrawal Force=90 grams/pin; Normal Force=140 grams/pin;
- Midget pin: Insertion Force=370 g/pin, Withdrawal Force=150 g/pin, Normal Force=240 g/pin; based on a .018 [.46] dia. test lead.
- Accepts leads .015-.025 [.38-.64] in dia.; midget pin accepts up to .022 [.56] dia.
- Accepts lead lengths from .100 [2.54] min; midget pin accepts lead lengths from .080 [2.03].

MOUNTING CONSIDERATIONS:

- Suggested PCB hole size:
Solder tail & extra long pin=.030 ± .002 [.76 ± .05] dia.
Midget pin=.040 ± .002 [1.02 ± .05] dia.



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.

ORDERING INFORMATION

XX-X518-1XXXXXX

No. of pins
(see table)

Row-to-row spacing:

- 3: "Y"=.300 [7.62]
- 4: "Y"=.400 [10.16]
- 6: "Y"=.600 [15.24]
- 9: "Y"=.900 [22.86]

Series

Solder tail pin

Plating:

0=Gold collet/Tin shell

OTL= Gold Collet/

Tin/Lead shell

1=Gold collet/Gold shell

Optional suffix:

H=Heavy Gold plating on collet

T=Tin plating on collet

TL=Tin/Lead plating on collet

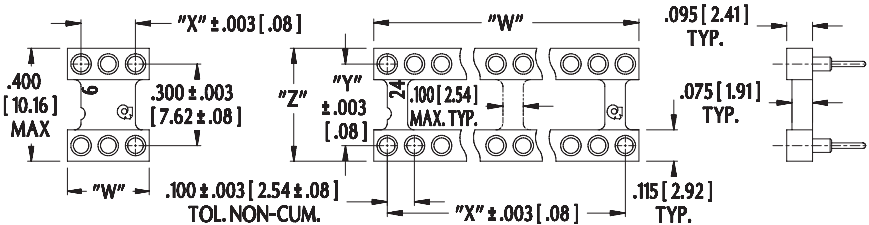
M=Midget solder tail (available Gold collet/Tin shell only)

MTL=Midget solder tail (available Gold collet/ Tin/Lead shell only)

E=Extra long solder tail

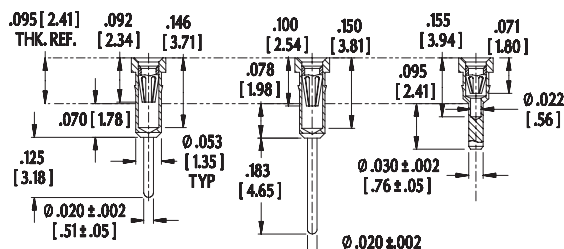
ALL DIMENSIONS: INCHES [MILLIMETERS]

All tolerances ± .005 [.13] unless otherwise specified



STYLE A

STYLE B,C (2.3 RIB)
Style D (4.5 rib) not shown



SOLDER TAIL EXTRA LONG "E" MIDGET "M"

"W"=(NO. OF PINS PER ROW) X .100 [2.54]
"X"=(NO. OF PINS PER ROW - 1) X .100 [2.54]

Frame Style	No. of Ribs	Centers "Y"	Dim. "Z"	Available Sizes
A	1	.300 [7.62]	.400 [10.16]	6
B	2	.300 [7.62]	.400 [10.16]	8,14,16,18,20,24
		.400 [10.16]	.500 [12.70]	20,22
		.300 [7.62]	.400 [10.16]	28
C	3	.400 [10.16]	.500 [12.70]	24
		.600 [15.24]	.700 [17.78]	24,28,32,40,48
D	4.5	.900 [22.86]	1.000 [25.40]	50,64

Other collet pins are available. Consult Data Sheet No. 12017 for wire wrap pins and 12018 for surface mount pins. Open Frame Capacitor Sockets also available. Consult Data Sheet Nos. 12026 and 12027.



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12016
REV.D