



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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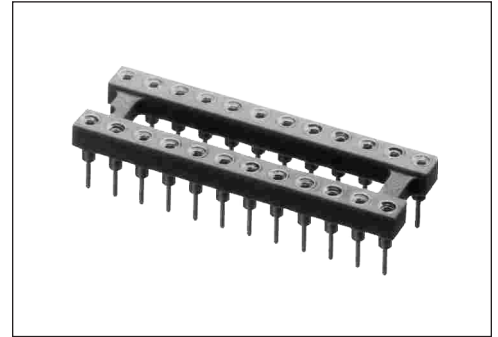
Series 518 Open Frame Collet Socket w/Solder Pin Tails

FEATURES

- Open Frame allows efficient utilization of board space with optimized cooling
- Choose from several pin styles
- Compatible with automatic insertion equipment
- Side-to-side and end-to-end stackable

GENERAL SPECIFICATIONS

- BODY MATERIAL: black UL 94V-0 glass-filled 4/6 Nylon
- PIN BODY: Brass 360 1/2-hard per UNS C36000 ASTM B16-00
- PIN BODY PLATING: 10 μ [0.25 μ] min. Au per MIL-G-45204
or
200 μ [5.08 μ] min. 93/7 Sn/Pb per ASTM B545
or
200 μ [5.08 μ] min. Sn per ASTM B545 Type 1 over 100 μ [2.54 μ] min. Ni per SAE AMS-QQ-N-290
- 4-FINGERED COLLET CONTACT: BeCu per UNS C17200 ASTM B194-01
- CONTACT PLATING: 200 μ [5.08 μ] min. 93/7 Sn/Pb per ASTM B545
or
200 μ [5.08 μ] min. Sn per ASTM B545 Type 1
or
10 μ [0.25 μ] Au per MIL-G-45204 over 50 μ [1.27 μ] min. Ni per SAE AMS-QQ-N-290
- AVAILABLE PLATING: Heavy Au 30 μ [0.76 μ]
- CONTACT CURRENT RATING: 3 amps
- OPERATING TEMPERATURE: 221°F [105°C] Sn and Sn/Pb plating 257°F [125°C] Au plating
- INSERTION FORCE: 180g/pin
- WITHDRAWAL FORCE: 90g/pin
- NORMAL FORCE: 140g/pin
- MIDGET PIN INSERTION FORCE: 370g/pin
- MIDGET PIN WITHDRAWAL FORCE: 150g/pin
- MIDGET PIN NORMAL FORCE: 240g/pin, based on a 0.018 [0.46] dia. test lead
- ACCEPTS LEAD LENGTHS: from 0.100 [2.54] min. and 0.015-0.025 [0.38-0.64] dia.
- ACCEPTS MIDGET PIN LEAD LENGTHS: from 0.080 [2.03] and up to 0.022 [0.56] 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.

ORDERING INFORMATION

XX-X 518-1 X X

No. of Pins ———
See Table

Row-to-Row Spacing ———
3: "Y" = 0.300 [7.62]
4: "Y" = 0.400 [10.16]
6: "Y" = 0.600 [15.24]
9: "Y" = 0.900 [22.86]

Series ———
Solder Pin Tail ———

Options

- H = Heavy Au on Collet
- T = Sn on Collet
- M = Midget Solder Tail (available Au Collet/Sn Shell only)
- E = Extra Long Solder Tail

Plating

- 0 = Au Collet/Sn Shell
- 1 = Au Collet/Au Shell

MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE FOR SOLDER PIN TAIL AND EXTRA LONG PIN: 0.030 \pm 0.002 [0.76 \pm 0.05] dia.
- SUGGESTED PCB HOLE SIZE FOR MIDGET PIN: 0.040 \pm 0.002 [1.02 \pm 0.05] dia.

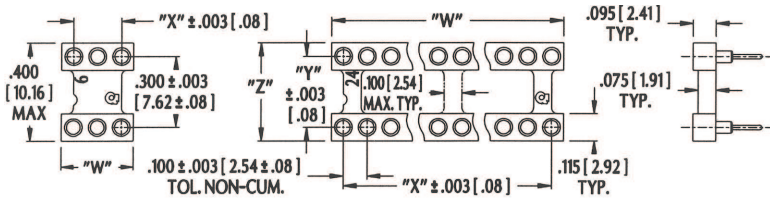


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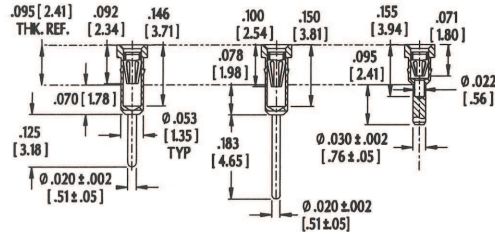
Series 518 Open Frame Collet Socket w/Solder Pin Tails



STYLE A

STYLE B.C (2.3 RIB)

Style D (4,5 rib) not shown



Frame Style	No. of Ribs	Centers "Y"	Dim. "Z"	Available Sizes
A	1	0.300 [7.62]	0.400 [10.16]	6
B	2	0.300 [7.62] 0.400 [10.16]	0.400 [10.16] 0.500 [12.70]	8, 14, 16, 18, 20, 24 20, 22
C	3	0.300 [7.62] 0.400 [10.16] 0.600 [15.24]	0.400 [10.16] 0.500 [12.70] 0.700 [17.78]	28 24 24, 28, 32, 40, 48
D	4, 5	0.900 [22.86]	1.000 [25.40]	50, 64

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

"W" (# PINS PER ROW) x 0.100 [2.54]

"X" (# PINS PER ROW - 1) x 0.100 [2.54]

OTHER COLLET PINS AVAILABLE, CONSULT...

[Data Sheet 12017](#) FOR WIRE WRAP PINS

[Data Sheet 12018](#) FOR SURFACE MOUNT PINS

[Data Sheet 12026](#) and [Data Sheet 12027](#) for OPEN FRAME CAPACITOR SOCKETS

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

ORDERING INFORMATION

XX - X 518 - 1 XXX XXX

Pin Count (see Table)

Row-to-Row Spacing

3 "Y" = 0.300 [7.62]

4 "Y" = 0.400 [10.16]

6 "Y" = 0.600 [15.24]

9 "Y" = 0.900 [22.86]

Series

Solder Pin Tail

Optional Suffix

H = Heavy Au on Collet

T = Sn on Collet

TL = Sn/Pb on Collet

M = Midget Solder Tail - Available Au Collet, Sn Shell

MTL = Midget Solder Tail - Available Au Collet, Sn/Pb Shell Only

Plating

0 = Au Collet, Sn Shell

OE = Au Collet, Sn Shell w/Extra Long Solder Tail

OTL = Au Collet, Sn/Pb Shell

1 = Au Collet, Au Shell



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