



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 Socket w/Collet Contacts & Surface Mount Pins

## FEATURES

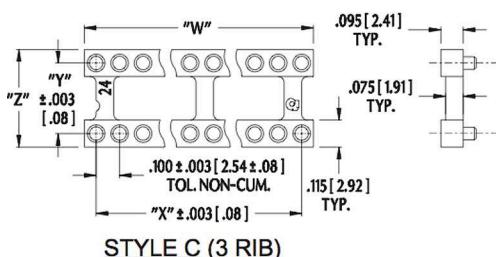
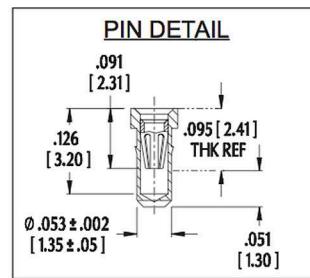
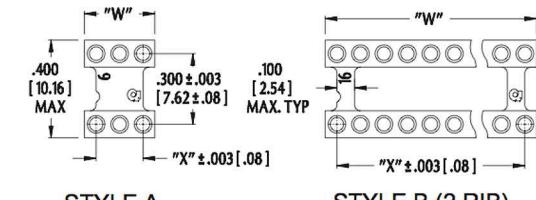
- Open Frame allows for more efficient utilization of Board Space and Better Cooling
- Compatible with Automatic Insertion Equipment
- Side-to-side and End-to-end Stackable

## 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/B16M-05
- **PIN BODY PLATING:** 200 $\mu$  [5.08 $\mu$ ] min. 93/7 Sn/Pb per ASTM B545 –OR– 200 $\mu$  [5.08 $\mu$ ] min. Sn per ASTM B545 Type 1 over 100 $\mu$  [2.54 $\mu$ ] min. Ni per SAE AMS-QQ-N-290B
- **4-FINGER COLLET CONTACT:** BeCu per UNS C17200 ASTM B194-08
- **CONTACT PLATING:** 10 $\mu$  [0.25 $\mu$ ] Au per MIL-G-45204 over 50 $\mu$  min. [1.27 $\mu$ ] Ni per SAE AMS-QQ-N-290B
- **CONTACT CURRENT RATING:** 3 amps
- **OPERATING TEMPERATURE:** -67°F to 221°F [-55°C to 105°C]
- **INSERTION FORCE:** 180g/pin, based on 0.018 [0.46] dia. test lead
- **WITHDRAWAL FORCE:** 90g/pin, based on 0.018 [0.46] dia. test lead
- **NORMAL FORCE:** 140g/pin, based on 0.018 [0.46] dia. test lead
- **ACCEPTS LEADS:** 0.015-0.025 [0.38-0.64] dia., 0.100-0.125 [2.54-3.18] long

## MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.045  $\pm$  0.002 [1.14  $\pm$  0.05] dia.



"W" = (NO. OF PINS PER ROW) x 0.100 [2.54]  
"X" = (NO. OF PINS PER ROW -1) x 0.100 [2.54]



Frame Style	No. of Ribs	Centers "Y"	Dim. "Z"	No. of Pins
A	1	0.300 [7.62]	0.400 [10.16]	6
B	2	0.300 [7.62]	0.400 [10.16]	8, 14, 16, 18, 20
		0.400 [10.16]	0.500 [12.70]	20, 22
		0.300 [7.62]	0.400 [10.16]	24, 28
C	3	0.400 [10.16]	0.500 [12.70]	24
		0.600 [15.24]	0.700 [17.78]	24, 28, 32

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES:  $\pm 0.005$  [0.13] UNLESS OTHERWISE SPECIFIED

OPEN FRAME COLLET SOCKET w/WIRE WRAP, SEE DATA SHEET 12016

OPEN FRAME COLLET SOCKET w/SOLDER PIN TAILS, SEE DATA SHEET 12017

OPEN FRAME COLLET CAPACITOR SOCKET w/SOLDER PIN, SEE DATA SHEET 12026

OPEN FRAME COLLET CAPACITOR SOCKET w/WIRE WRAP, SEE DATA SHEET 12027

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

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