



# 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

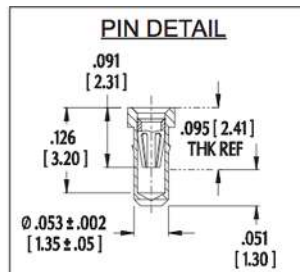
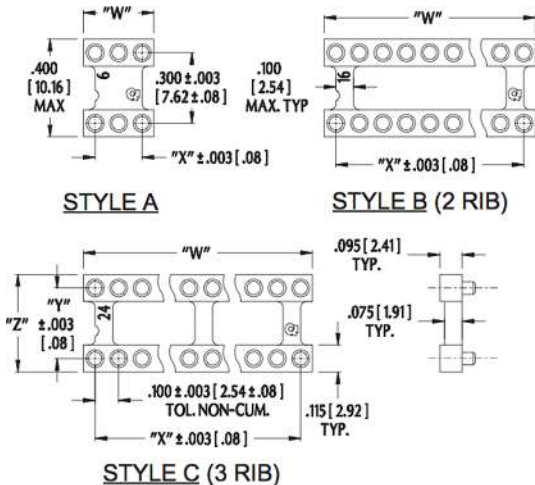
## ORDERING INFORMATION

**XX-X 518 X XXX**

- Plating**
  - 0 = Au Collet, Sn Shell
  - OTL = Au Collet, Sn/Pb Shell
  - 1 = Au Collet & Shell
- Termination**
  - 0 = Surface Mount
- Series**
- Row-to-Row Spacing, "Y" Dim.**
  - 3 = 0.300 [7.62]
  - 4 = 0.400 [10.16]
  - 6 = 0.600 [15.24]
- No. of Pins**  
(See Table)

## 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            |
| C           | 3           | 0.300 [7.62]  | 0.400 [10.16] | 24, 28            |
|             |             | 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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