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**: 200µ [5.08µ] min. 93/7 Sn/Pb per ASTM B545 –OR– 200µ [5.08µ] min. Sn per ASTM B545 Type 1 over 100µ [2.54µ] min. Ni per SAE AMS-QQ-N-290B
- **4–FINGER COLLET CONTACT**: BeCu per UNS C17200 ASTM B194-08
- **CONTACT PLATING**: 10µ [0.25µ] Au per MIL-G-45204 over 50µ min. [1.27µ] 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 ±0.002 [1.14 ±0.05] dia.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>XX-X 518 X XXX</th>
<th>Plating</th>
<th>Termination</th>
<th>Row-to-Row Spacing, “Y” Dim.</th>
<th>No. of Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 = Au Collet, Sn Shell</td>
<td>0 = Surface Mount</td>
<td>3 = 0.300 [7.62]</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0TL = Au Collet, Sn/Pb Shell</td>
<td>4 = 0.400 [10.16]</td>
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<td>20</td>
</tr>
<tr>
<td></td>
<td>1 = Au Collet &amp; Shell</td>
<td>6 = 0.600 [15.24]</td>
<td>22</td>
<td></td>
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XX = Plating

- 0 = Au Collet, Sn Shell
- 0TL = Au Collet, Sn/Pb Shell
- 1 = Au Collet & Shell

X = Termination

- 0 = Surface Mount

XXX = 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)

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

Frame Depth

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<td>0.600 [15.24]</td>
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ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ±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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