Series 518 Open Frame Socket w/Collet Contacts & 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: 10µ [0.25µ] min. Au per MIL-G-45204
  –OR– 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-290
- 4-FINGER COLLET CONTACT: BeCu per UNS C17200 ASTM B194-01
- CONTACT PLATING: 200µ [5.08µ] min. 93/7 Sn/Pb per ASTM B545
  –OR– 200µ [5.08µ] min. Sn per ASTM B545 Type 1
  –OR– 10µ [0.25µ] Au per MIL-G-45204 over 50µ [1.27µ] min. Ni per SAE AMS-QQ-N-290
- AVAILABLE PLATING: heavy Au 30µ [0.76µ]
- CONTACT CURRENT RATING: 3 amps
- OPERATING TEMPERATURE: 221°F [105°C] for Sn and Sn/Pb plating, 257°F [125°C] for 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.

ORDERING INFORMATION

XX-X 518-X XXX XXX

Additional Options
- H = Heavy Au on Collet
- T = Sn on Collet
- TL = Sn/Pb on Collet
- M = Midget Solder Tail (Au Collet, Sn Shell Only)
- MTL = Midget Solder Tail (Au Collet, Sn/Pb Shell Only)
- E = Extra Long Solder Tail

Plating *
- 0 = Au Collet, Sn Shell
- OTL = Au Collet, Sn/Pb Shell
- 1 = Au Collet & Shell

Termination
- 1 = Solder Pin Tail

Series

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

No. of Pins (See Table)

* Consult Factory for Additional Plating Options

MOUNTING CONSIDERATIONS

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

ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED
OPEN FRAME COLLET SOCKET w/SOLDER PIN TAILS, SEE DATA SHEET 12017
OPEN FRAME SURFACE MOUNT SOCKET, SEE DATA SHEET 12018
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

CUSTOMIZATION: ARIES SPECIALIZES IN CUSTOM DESIGN AND PRODUCTION. SPECIAL MATERIALS, PLATINGS, SIZES, AND CONFIGURATIONS CAN BE FURNISHED, DEPENDING ON QUANTITY.

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