Series 518 Open Frame Capacitor Socket
w/Collet Contacts & Solder Pin Tails

FEATURES

- Capacitor bypasses unwanted electromagnetic noise
- Available with 0.1µF or 0.33µF Capacitor, 50V, Z5U temperature coefficient
- 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: Blue UL 94V-0 Glass-filled Polyester Thermoplastic (PBT)
- PIN BODY: Brass 360 1/2-hard per UNS C36000 ASTM16-85
- PIN BODY PLATING: either 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-B194-92
- CONTACT PLATING: 10µ [0.25µ] min. Au per MIL-G-45204 or 150µ [3.81µ] min. 93/7 Sn/Pb per MIL-P-81728 over 50µ [1.27µ] min. Ni per QQ-N-290. Heavy 30µ [0.76µ] Au plating also available
- CONTACT CURRENT RATING: 3 amps
- OPERATING TEMPERATURE: 221°F [105°C] for Sn plating, and 257°F [125°C] for Au plating
- INSERTION FORCE: 180g/pin
- WITHDRAWAL FORCE: 90g/pin
- NORMAL FORCE: 140g/pin; based on a 0.018 [0.46] dia. test lead
- ACCEPES LEADS: 0.015-0.025 [0.38-0.64] in dia.
- LEAD LENGTHS: from 0.100 [2.54] min.

MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE: 0.030 ± 0.002 [0.76±0.05] dia.

ORDERING INFORMATION

XX-X 518-X X X X

Additional Options
H = Heavy Au on Collet
T = Sn on Collet
E = Extra Long Solder Tail

Capacitor
1 = 0.1µF
2 = 0.33µF

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

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]

No. of Pins
(See Table)

Frame Style
No. of Ribs
Centers “Y” Dim. “Z” No. of Pins

B 2 0.300 [7.62] 0.400 [10.16] 14, 16, 18, 20
0.400 [10.16] 0.500 [12.70] 20, 22, 24

C 3 0.300 [7.62] 0.400 [10.16] 24, 28
0.600 [15.24] 0.700 [17.78] 24, 28, 32, 40

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

ARIES RESERVES THE RIGHT TO CHANGE PRODUCT GENERAL SPECIFICATIONS WITHOUT NOTICE.

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ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED
OPEN FRAME COLLET SOCKET w/WIRE WRAP PINS, SEE DATA SHEET 12016
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/WIRE WRAP, SEE DATA SHEET 12027
CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

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