



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

## FEATURES

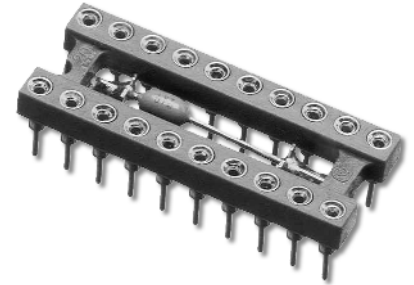
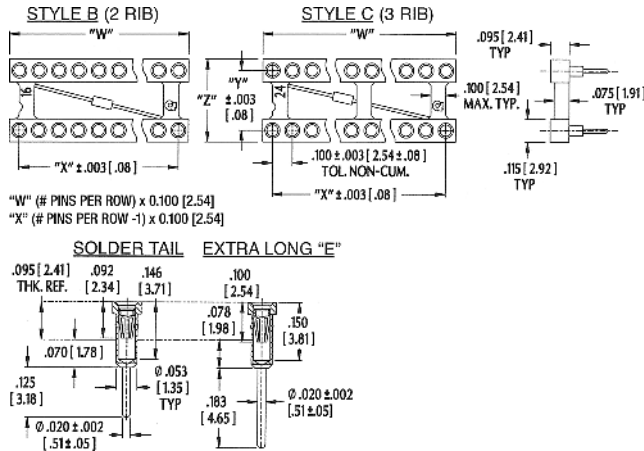
- Capacitor bypasses unwanted electromagnetic noise
- Available with 0.1 $\mu$ F or 0.33 $\mu$ F Capacitor, 50V, Z5U temperature coefficient
- Open frame allows for more efficient utilization of board space and better cooling
- Compatible with Automatic Insertion Equipment
- Side-to-side and End-to-end Stackable

## GENERAL SPECIFICATIONS

- **BODY MATERIAL:** Blue UL 94V-0 Glass-filled Polyester Thermoplastic (PBT)
- **PIN BODY:** Brass 360 1/2-hard per UNS C36000 ASTM B16-85
- **PIN BODY PLATING:** either 10 $\mu$  [0.25 $\mu$ ] min. Au per MIL-G-45204 or 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-290
- **4-FINGER COLLET CONTACT:** BeCu per UNS C17200 ASTM-B194-92
- **CONTACT PLATING:** 10 $\mu$  [0.25 $\mu$ ] min. Au per MIL-G-45204 –OR– 150 $\mu$  [3.81 $\mu$ ] min. 93/7 Sn/Pb per MIL-P-81728 over 50 $\mu$  [1.27 $\mu$ ] min. Ni per QQ-N-290. Heavy 30 $\mu$  [0.76 $\mu$ ] 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
- **ACCEPTS 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  $\pm$  0.002 [0.76  $\pm$  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 = 0.1 $\mu$ F
- 2 = 0.33 $\mu$ F

### Plating

- 0 = Au Collet, Sn Shell
- OTL = Au Collet, Sn/Ph 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

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES:  $\pm$ 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

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

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