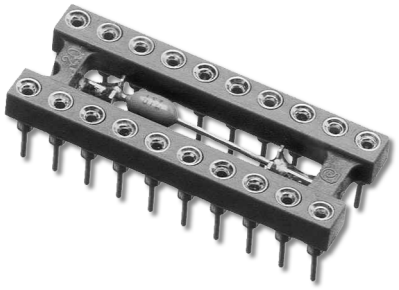
Series 518 Open Frame Capacitor Socket w/Collet Contacts & Solder Pin Tails

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

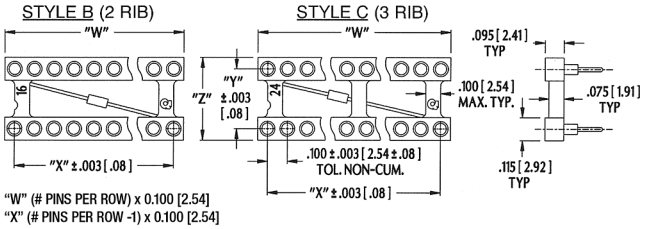


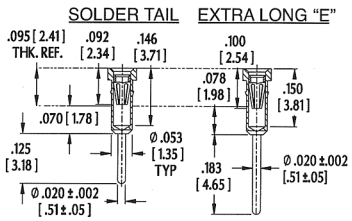
GENERAL SPECIFICATIONS

- **BODY MATERIAL**: Blue UL 94V-0 Glass-filled Polyester Thermoplastic (PBT)
- **PIN BODY**: Brass 360 1/2-hard per UNS C36000 ASTMB16-85
- **PIN BODY PLATING**: 200µ [5.08µ] min. 93/7 Sn/Pb per MIL-P-81728 **–OR–** 10µ [0.25µ] min. Au per MIL-G-45204 over 100µ [2.54µ] min. Ni per 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
- **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 ±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
  - 0 = Au Collet, Sn 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: ±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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