



# Single and Dual Row Solder Pin Tails Collet Socket – Series 518

## FEATURES

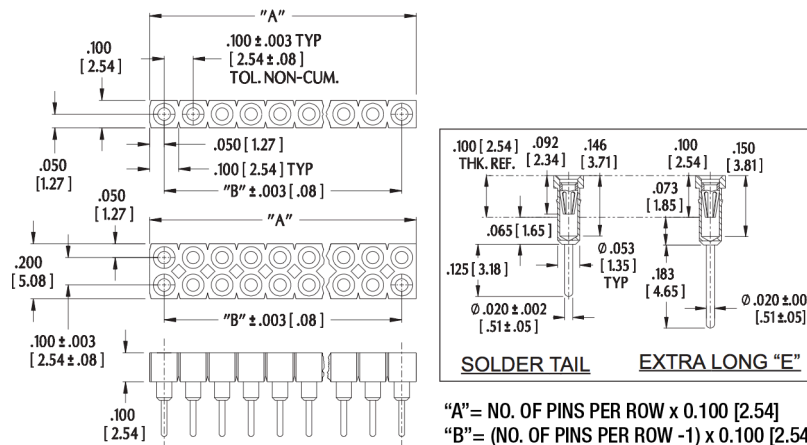
- Collet Sockets available in Single or Dual Rows
- Cuttable to the number of pins desired to fit the application
- Side-to-side and end-to-end stackable

## 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:** 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-290B
- **4-FINGER COLLET CONTACT:** BeCu per UNS C17200 ASTM B194-08
- **CONTACT PLATING:** 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 or 10 $\mu$  [0.25 $\mu$ ] Au per MIL-G-45204 over 50 $\mu$  [1.27 $\mu$ ] min. [1.27 $\mu$ ] Ni per SAE AMS-QQ-N-290 Heavy 30 $\mu$  [0.76 $\mu$ ]
- **CONTACT CURRENT RATING:** 3 amps
- **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
- **OPERATING TEMPERATURE:** -67°F to 221°F [-55°C to 105°C] for Sn plating; -67°F to 257°F [-55°C to 125°C] for Au plating
- **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.
- **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 518-1 XX XX

### Additional Options

- H = Heavy Au on Collet Shell
- T = Sn Collet, Sn Shell
- TL = Sn/Pb Collet & Shell
- E = Extra Long Solder Pin Tail

### Plating

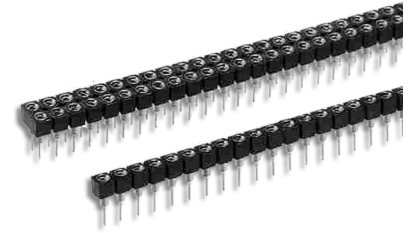
- 0 = Au Collet, RoHS Shell
- OTL = Au Collet, Sn/Pb Shell
- 1 = Au Collet & Shell

### Solder Pin Tail

### Series

- No. of Rows  
0 = Single  
1 = Dual

- No. of Pins per Socket  
1 Row – 1 to 40 Pins  
2 Rows – 2 to 66 Pins



ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES:  $\pm$ 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

FOR SOCKET STRIPS WITH WIRE WRAP PINS, SEE [DATA SHEETS 12021](#)

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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12020  
Rev. 7.3  
1 of 1

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