



Series 503 Lo-PRO® file Socket w/Collet Contacts & Wire Wrap Pins

FEATURES

- Available with Solder Tail or Wire Wrap Pins
- Choose from Several Sizes and Plating Options

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:** 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-290B
- **4-FINGER COLLET CONTACT:** BeCu per UNS C17200 ASTM B194-08
- **CONTACT PLATING:** 30μ [0.76μ] Au per MIL-G-45204 over 50μ [1.27μ] min. Ni per SAE AMS-QQ-N-290B
- **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] Sn; -67°F to 257°F [-55°C to 125°C] Au
- **ACCEPTS LEADS:** 0.015-0.025 [0.38-0.64] dia., 0.110-0.162 [2.79-4.11] long

MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.045 ±0.002 [1.14 ±0.05] dia.



"W" = NO. OF PINS PER ROW x 0.100 [2.54]
 "X" = (NO. OF PINS PER ROW -1) x 0.100 [2.54]

Centers "Y"	Dim. "Z"	Body Style	Available Sizes
0.200 [5.08]	0.300 [7.62]	A	2 thru 10
0.300 [7.62]	0.400 [10.16]	C, B	2 thru 20, 22 thru 40
0.400 [10.16]	0.500 [12.70]	C	2 thru 22
0.600 [15.24]	0.700 [17.78]	C, B	2 thru 40, 42 thru 48
0.900 [22.86]	1.000 [25.40]	B	2 thru 64



ORDERING INFORMATION

XX-X 503-XX XX

Plating

- 0 = Au Collet/Sn Shell
- OTL = Au Collet/Sn/Pb Shell
- 1 = Au Collet/Au Shell

Termination

- 2 = 2-level Wire Wrap
- 2 = 3-level Wire Wrap

Series

Row-to-Row Spacing (Dim. "Y")

- 2 = 0.200 [5.08]
- 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)

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

FOR COLLET SOCKETS WITH SOLDER PIN TAILS, SEE DATA SHEETS 12011

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.

ARIES RESERVES THE RIGHT TO CHANGE PRODUCT GENERAL SPECIFICATIONS WITHOUT NOTICE

PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE CONSIDERED UNCONTROLLED



ARIES
ELECTRONICS, INC.

2609 Bartram Road • Bristol, PA 19007-6810 USA

TEL 215-781-9956 • FAX 215-781-9845

WWW.ARIESELEC.COM • INFO@ARIESELEC.COM



12012
Rev. 7.1
1 of 1