



Series 514 TO Collet Sockets

FEATURES:

- Aries' TO sockets feature molded chamfer lead-ins for easy device insertion.
- High stand-off design for heat dissipation and easy cleaning.
- External polarization for positive location.

SPECIFICATIONS:

- Body material is black UL 94-V0 Glass-filled 4/6 Nylon.
- Pin body is Brass Alloy 360 1/2 hard per UNS C36000 ASTM-B16-00.
- Pin body plating:
-10TL is 200μ [5.08μm] min. 93/7 Tin/Lead per ASTM B545 over 100μ [2.54μm] min. Nickel per SAE-AMS-QQ-N-290.
-10 is 200μ [5.08μm] min. Tin per ASTM B545 Type 1 over 100μ [2.54μm] min. Nickel per SAE-AMS-QQ-N-290.
- 4-fingered collet contact is Beryllium Copper Alloy per UNS C17200 ASTM-B194-01.
- Contact plating is 30μ [7.6μm] min. Gold per MIL-G-45204 over 50μ [1.27μm] Nickel per SAE-AMS-QQ-N-290.
- Contact current rating=3 Amps.
- Operating temperature= -67°F to 221°F [-55°C to 105°C].
- Insertion Force=180 grams/pin; Withdrawal Force=90 grams/pin; Normal Force=140 grams/pin; based on a .018 [.46] diameter test lead.
- Socket accepts leads .015-.025 [.38-.64] in diameter, .137-.180 [3.48-4.57] long.

MOUNTING CONSIDERATIONS:

- Suggested PCB hole size=.030 ± .002 [.76 ± .05] dia.

No. of Pins	Catalog No.	Outside Dia. "A"	Pin Pattern Dia. "B"	Pin to Pin Angle "C"
3	03-514-10	.400 [10.16]	.200 [5.08]	90
4	04-514-10	.400 [10.16]	.200 [5.08]	90
8	08S-514-10	.400 [10.16]	.200 [5.08]	45
8	08L-514-10	.400 [10.16]	.230 [5.84]	45
10	10-514-10	.400 [10.16]	.230 [5.84]	36
12	12-514-10	.405 [10.23]	.300 [7.62]	30



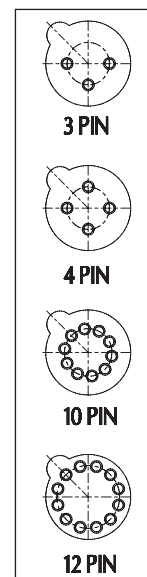
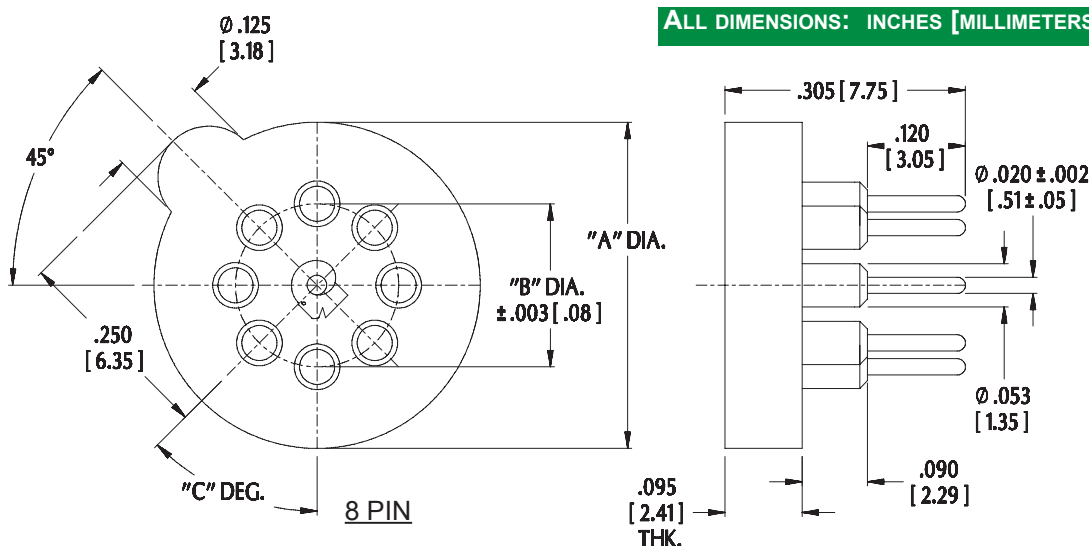
Note: Aries specializes in custom design and production. In addition to the standard products shown on this page, special materials, platings, sizes, and configurations can be furnished, depending on quantities. Aries reserves the right to change product specifications without notice.

ORDERING INFORMATION

XX-514-10-XX
 No. of pins (see table) | Series | Gold collet/Tin shell plated solder tail | Option: TL= Gold collet/ Tin/Lead Plated solder Tail

All tolerances ± .005 [.13] unless otherwise specified

ALL DIMENSIONS: INCHES [MILLIMETERS]



ARIES
 ELECTRONICS, INC.
<http://www.arieselec.com> • info@arieselec.com

Bristol, PA USA
 TEL: (215) 781-9956
 FAX: (215) 781-9845



14006
REV. E

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