



# Series 354000 DIP to SOIC Adapters

## FEATURES:

- Convenient, cost-effective means of converting DIP style packaging to SOIC PC board layouts.

## SPECIFICATIONS:

- Socket body is black, UL 94V-0 Glass-filled Thermoplastic Polyester (PET).
- PCB is black FR-4, .062 [1.58] thick.
- Male adapter pin is Brass Alloy 360 1/2 hard per UNS C36000 ASTM-B16-85.
- Male adapter pin plating is 200μ [5.08μm] min. 93/7 Tin/Lead per MIL-P-81728 over 100μ [2.54μm] min. Nickel per QQ-N-290.
- Collet contact pin body is Brass Alloy 360 1/2 hard per UNS C36000 ASTM-B16-85.
- Collet pin plating is 10μ [.254μm] min. Gold per MIL-G-45204 over 100μ [2.54μm] min. Nickel per QQ-N-290.
- 4-fingered collet contact is Beryllium Copper Alloy per UNS C17200 ASTM-B194-92.
- Contact plating is 10μ [.254μm] min. Gold per MIL-G-45204 over 50μ [1.27μm] min. Nickel per QQ-N-290.
- Contact current rating=3 Amps.
- Operating temperature=221°F [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, .100-.125 [2.54-3.18] long.

## MOUNTING CONSIDERATIONS:

- Suggested PCB solder pad size=.028 [.71] min. width.



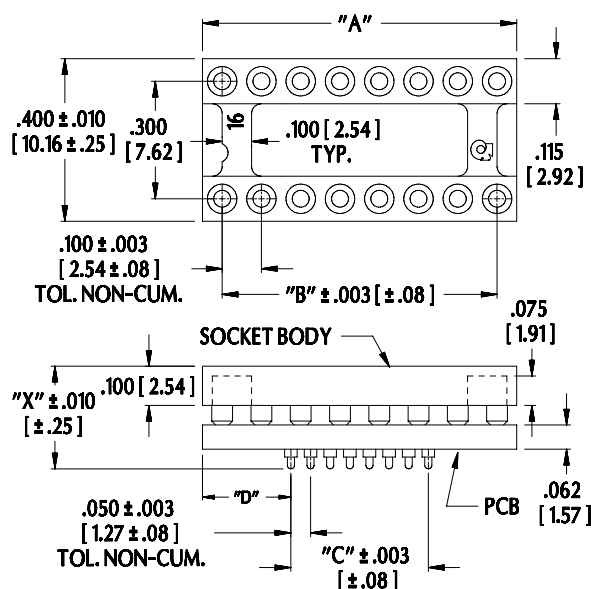
Note: Aries specializes in custom design and production. In addition to the standard products shown on this page, special materials, platings, sizes, and configurations can be furnished, depending on quantities. Aries reserves the right to change product specifications without notice.

## ORDERING INFORMATION

| XX-354000-X0          |        |                                       |                     | Tin plating        |
|-----------------------|--------|---------------------------------------|---------------------|--------------------|
| No. of pins:          | Series | Adapter pin option (see suffix table) | 1=Short adapter pin | 2=Long adapter pin |
|                       |        |                                       |                     |                    |
| 8, 14, 16, 20, 24, 28 |        |                                       |                     |                    |

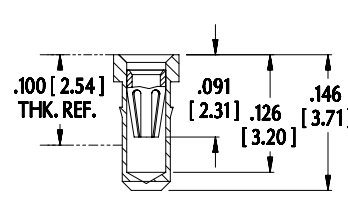
## ALL DIMENSIONS: INCHES [MILLIMETERS]

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



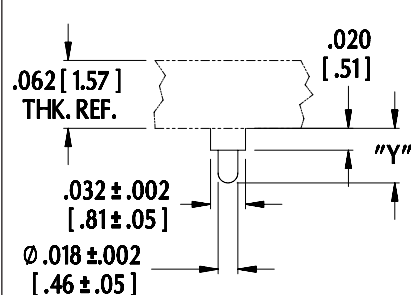
| No. of Pins | Dim. "A"      | Dim. "B"      | Dim. "C"     | Dim. "D"     |
|-------------|---------------|---------------|--------------|--------------|
| 8           | .400 [10.16]  | .400 [10.16]  | .100 [2.54]  | .125 [3.175] |
| 14          | .700 [17.78]  | .600 [15.24]  | .300 [7.62]  | .225 [5.72]  |
| 16          | .800 [20.32]  | .700 [17.78]  | .350 [8.89]  | .225 [5.72]  |
| 20          | 1.000 [25.40] | .900 [22.86]  | .450 [11.43] | .275 [6.99]  |
| 24          | 1.200 [30.48] | 1.100 [27.94] | .550 [13.97] | .325 [8.26]  |
| 28          | 1.400 [35.56] | 1.300 [33.02] | .650 [16.51] | .375 [9.53]  |

## COLLET CONTACT DETAIL



| Part No. Suffix | Dim. "X"    | Dim. "Y"    |
|-----------------|-------------|-------------|
| -10             | .265 [6.73] | .050 [1.27] |
| -20             | .325 [8.26] | .110 [2.79] |

## MALE ADAPTER PIN DETAIL



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