



# Series 652000 and 653000 PLCC-to-DIP Adapter

## FEATURES

- Converts PLCC packaged ICs to DIP footprints.
- Ideal for prototyping and testing/evaluation.
- Available with PLCC sockets or PLCC pads on top side.
- Consult factory for Panelized Form or for mounting of consigned ICs.

## GENERAL SPECIFICATIONS

- ADAPTER BODY: FR-4, 0.062 [1.58] thick, with 1-oz. Cu traces
- PINS: Brass 360 1/2-hard per UNS C36000, ASTM B16/B16M
- PIN PLATING: Sn/Pb 93/7 is 200 $\mu$  [5.08 $\mu$ ] per ASTM B579-73 over 100 $\mu$  [2.54 $\mu$ ] Ni per SAE-AMS-QQ-N-290 with 10 $\mu$  [0.254 $\mu$ ] Au per MIL-G-45204 over 100 $\mu$  [2.54 $\mu$ ] Ni per SAE AMS-QQ-N-290
- OPTIONAL PLCC SURFACE MOUNT SOCKET: UL 94V-0 PPS
- SOCKET CONTACTS: Phosphor Bronze, Sn-plated
- CURRENT RATING: 1 amp
- OPERATING TEMPERATURE: 221°F [105°C]

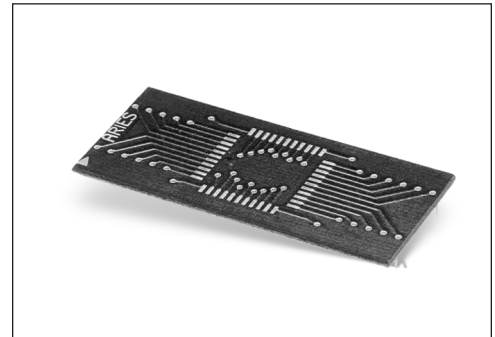
## MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE: 0.028  $\pm$  0.003 [0.71  $\pm$  0.08] dia.
- Will plug into Standard IC Socket
- See Table for Pad Layout when mounting PLCC socket

ALL DIMENSIONS: INCHES [MILLIMETERS]

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

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

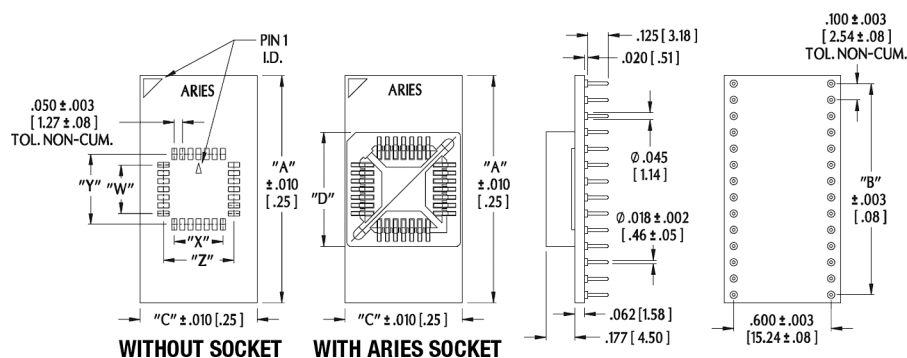


**CUSTOMIZATION:** In addition to the standard products shown on this page, Aries specializes in custom design and production. Special materials, platings, sizes, and configurations can be furnished, depending on the quantity. **NOTE:** Aries reserves the right to change product general specifications without notice.

## ORDERING INFORMATION

**XX-65X000-1 X**

No. of Pins — 28, 32, 44, 68, 84  
Series — 652000: without socket  
653000: with socket  
Plating — 0 = Sn/Pb  
1 = Au  
Solder Tail Pin



| Pins | Dim. "A"       | Dim. "B"       | Dim. "C"      | Dim. "D"      | Dim. "W"<br>$\pm$ 0.003 [ $\pm$ 0.08]<br>non-cumulative | Dim. "X"<br>$\pm$ 0.003 [ $\pm$ 0.08]<br>non-cumulative | Dim "Y"<br>$\pm$ 0.003 [ $\pm$ 0.08] | Dim. "Z"<br>$\pm$ 0.003 [ $\pm$ 0.08] | Pad Size                    |
|------|----------------|----------------|---------------|---------------|---------------------------------------------------------|---------------------------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|
| 28   | 1.400 [35.56]  | 1.300 [33.02]  | 0.705 [17.91] | 0.703 [17.86] | 0.300 [7.62]                                            | 0.300 [7.62]                                            | 0.449 [11.41]                        | 0.449 [11.41]                         | 0.024 x 0.076 [0.61 x 1.93] |
| 32   | 1.600 [40.64]  | 1.500 [38.10]  | 0.705 [17.91] | 0.805 [20.45] | 0.400 [10.16]                                           | 0.300 [7.62]                                            | 0.549 [13.95]                        | 0.448 [11.39]                         | 0.024 x 0.076 [0.61 x 1.93] |
| 44   | 2.200 [55.88]  | 2.100 [53.34]  | 0.910 [23.11] | 0.910 [23.11] | 0.500 [12.70]                                           | 0.500 [12.70]                                           | 0.670 [17.02]                        | 0.670 [17.02]                         | 0.026 x 0.076 [0.66 x 1.93] |
| 68   | 3.400 [86.36]  | 3.300 [88.32]  | 1.220 [30.99] | 1.220 [30.99] | 0.800 [20.32]                                           | 0.800 [20.32]                                           | 0.945 [24.00]                        | 0.945 [24.00]                         | 0.026 x 0.076 [0.66 x 1.93] |
| 84   | 4.200 [106.68] | 4.100 [104.14] | 1.420 [36.07] | 1.421 [36.09] | 1.000 [24.40]                                           | 1.147 [29.13]                                           | 1.147 [29.13]                        | 1.147 [29.13]                         | 0.026 x 0.080 [0.66 x 2.03] |



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