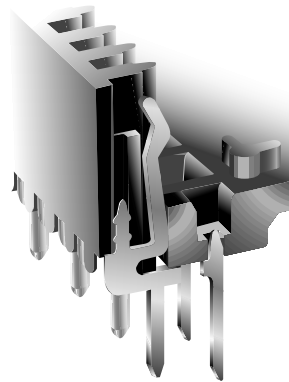


# PCS Series *Sockets for PLCC Packages*




PCS-068A-1



C

## FEATURES:

The Thomas & Betts PCS Series Chip Carrier sockets accepts Jedec Type "A" plastic leaded chip carriers on .050" (1.27) centers. These dependable sockets combine positive retention of the package with high normal force to insure outstanding electrical and mechanical performance. The solder tail design allows through-hole board patterns on .100" (2.54) grid.

- High Normal force, 200 grams (7.1 oz.) min.
- Internal standoff insures proper positioning of chip carrier in socket
- Visual aids external to socket assure easy registration to printed wiring board
- Easy access for probing installed chip carrier
- Standoffs and four drain holes aid in cleaning
- PLCC Extraction Tool TX8136-20/84 PCS, see page J3
- Accepts JEDEC PLCC's MO-047 AA-AH (20-84), MO-052 AE (32 RECT)
-  Recognized under the Component Program of Underwriters Laboratories, Inc. file no. E111362

## MATERIAL SPECIFICATIONS:

Insulator ..... PPS, UL rated 94V-0  
 Contact ..... Phosphor bronze  
 Plating ..... Tin/lead

## PERFORMANCE SPECIFICATIONS:

### MECHANICAL

Vibration ..... Passed MIL-STD-1344, Method 2005.1, Condition II, 10 G's  
 Shock ..... Passed MIL-STD-1344, Method 2004.1, Condition A, 50 G's  
 Durability ..... 50 Cycles minimum  
 Normal Force ..... 200 Grams (7.1 oz.) minimum when mated to nominal size PLCC device  
 Mating Force ..... 310 Grams (11.0 oz.) per line maximum when mated to maximum size PLCC device  
 Unmating Force ..... 31 Grams (1.1 oz) per line minimum when mated to minimum size PLCC device  
 Solderability ..... Passed MIL-STD-202, Method 208  
 Contact Retention  
     in Plastic ..... 2.0 Lbs. per line minimum

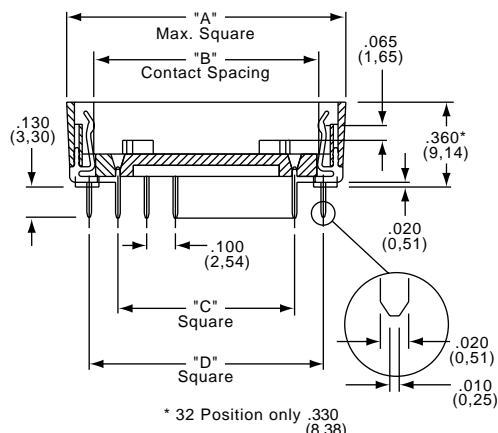
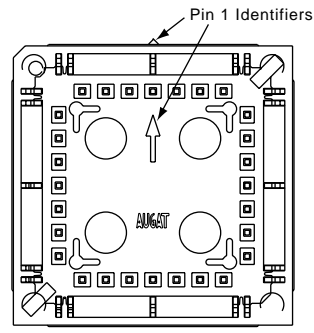
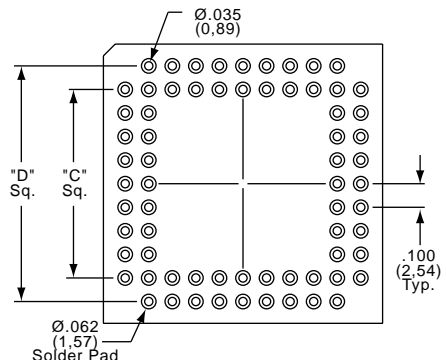
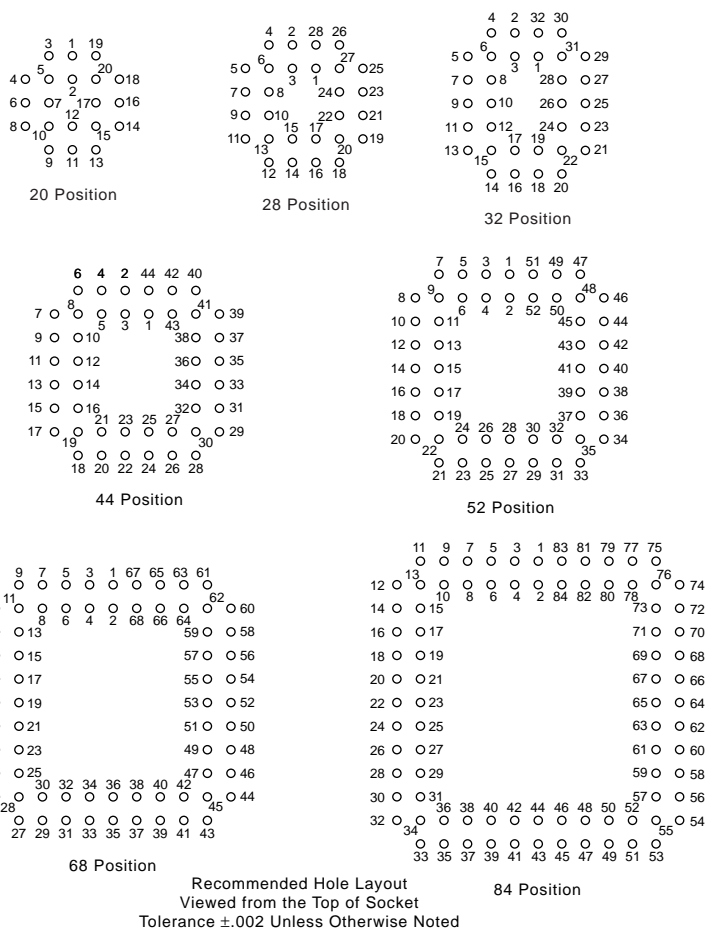
### ELECTRICAL

Contact Resistance ..... 30 Milliohms max.  
 Contact Rating ..... 1 Amp  
 Capacitance ..... 1 pF max. @ 1 kHz, MIL-STD-202, Method 305 (contact to contact)  
 Insulation Resistance .... 1 x 10<sup>4</sup> Megohms per MIL-STD-1344, Method 3003.1  
 Dielectric Withstanding  
     Voltage ..... 600 VAC per MIL-STD-1344, Method 3001.1

### ENVIRONMENTAL

Humidity ..... Passed MIL-STD-1344, Method 1002.2, Type II  
 Operation Temperature .. -55°C to +105°C

# Sockets for PLCC Packages PCS Series



## STANDARD CONFIGURATIONS

Part Number	Number of Contacts	A	B*	C	D	E
PCS-020A-1	20	.590 (14,98)	.360 (9,14)	.200 (5,08)	.400 (10,16)	.395/.385 (10,03/9,78)
PCS-028A-1	28	.690 (17,52)	.460 (11,68)	.300 (7,62)	.500 (12,70)	.495/.485 (12,57/12,32)
PCS-044A-1	44	.890 (22,60)	.660 (16,76)	.500 (12,70)	.700 (17,78)	.695/.685 (17,65/17,40)
PCS-052A-1	52	.990 (25,15)	.760 (19,30)	.600 (15,24)	.800 (20,32)	.795/.785 (20,19/19,94)
PCS-068A-1	68	1.190 (30,22)	.960 (24,46)	.800 (20,32)	1.000 (25,40)	.995/.985 (25,27/25,02)
PCS-084A-1	84	1.390 (35,31)	1.160 (29,54)	1.000 (25,40)	1.200 (30,48)	1.195/1.185 (30,35/30,10)

\* Dimension B ± .010 (0,25)

## 32 POSITION RECTANGULAR

Part Number	Number of Contacts	A		B*		C		D		E	
		Long Side	Short Side	Long Side	Short Side	Long Side	Short Side	Long Side	Short Side	Long Side	Short Side
PCS-032A-1	32	.790 (20,07)	.690 (17,53)	.564 (14,33)	.464 (11,79)	.400 (10,16)	.300 (7,62)	.600 (15,24)	.500 (12,70)	.595/.585 (15,11/14,86)	.495/.485 (12,57/12,32)

\* Dimension B ± .010 (0,25)

**Need more technical information?**  
Consult your Thomas & Betts sales office listed on the back cover