



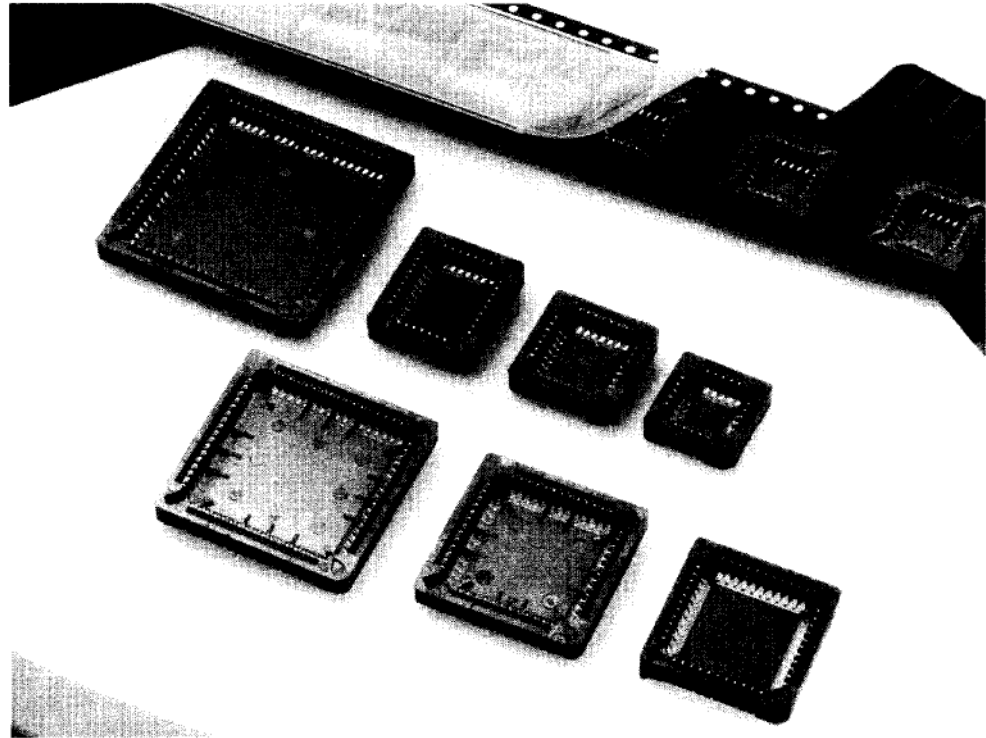


**PLCC Sockets** (Continued)

**Low Profile, Surface Mount**

**Product Facts**

- Low profile — only 4.7 [.185] max.\* for high density pc board stacking
- Compatible footprint allows for socket or direct mounting
- Housing slots accept extraction tool for easy PLCC removal
- Pin 1 indicator and corner chamfer for PLCC orientation
- Available with or without polarizing pins, loose piece or tape mounted
- High normal force contacts prevent fretting corrosion
- Plastic standoffs provide clearance for heat dissipation and cleaning operations
- Polyphenylene sulfide housings will withstand high temperature soldering
- Open bottom housing for convenient placement of socket on pattern, 100% inspection of solder joint, solder joint repair without housing removal, and penetration of heat source to the solder pad and surface mount contact
- Top contact slots allow test probing with PLCC device in place
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 
- Certified by Canadian Standards Association File LR 7189A-97 



The AMP family of Low Profile Plastic Leaded Chip Carrier (PLCC) Sockets for surface mounting is designed to accommodate Plastic "J" leaded, tin plated devices made to JEDEC Specifications MS-018 (square packages) and MS-016-AE (rectangular packages).

Sockets are available in the new improved low insertion force design that incorporates a unique contact method, allowing the PLCC device to be more easily inserted into the socket.

Available in 20, 28, 32, 44, 52, 68 and 84 positions, these sockets feature high normal force contacts made from phosphor bronze material with tin-lead over nickel plating. Sockets feature a one-piece polyphenylene sulfide housing that will withstand vapor-phase, I.R. or convection reflow soldering temperatures and prevent flux and solvent entrapment.

The low profile housing is only 4.7 [.185] high, maximum\* allowing high density printed circuit board stacking. The open bottom design enables easy socket placement on the pc board footprint pattern and facilitates solder joint repair and inspection as well as permitting the heat source to penetrate to the solder pad and surface mount contact. The socket uses the same footprint pattern as the chip carrier.

Sockets are also available on embossed tape made to EIA Standard 481 which allows interchangeability of tape in commercially available pick-and-place equipment.

**Technical Documents**

- Product Specification:** 108-1267
- Qualification Test Report:** 501-98
- Reliability Test Report:** 502-1025
- Instruction Sheets:** 408-9577 Extraction Tools  
408-9695 All Purpose Extraction Tool
- Application Specification:** 114-16018



**PLCC Sockets (Continued)**

**Low Profile, Surface Mount (Continued)**

**Square Sockets — 20, 28, 44, 52, 68 and 84 Positions**

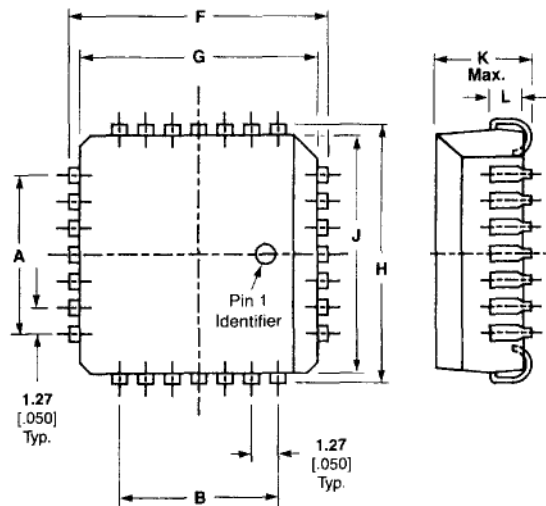
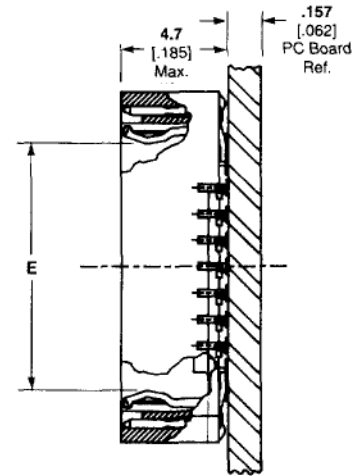
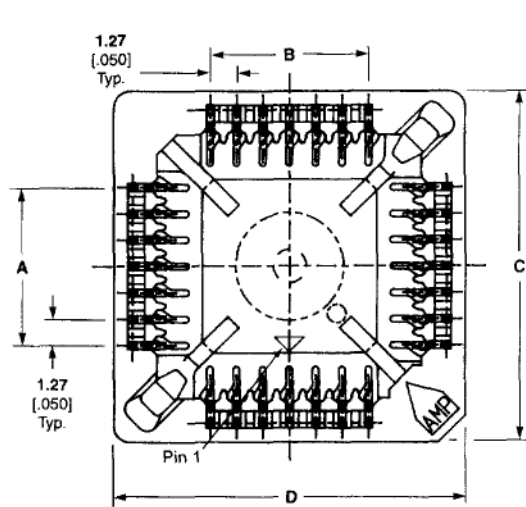
**Materials and Finish**

**Housing** — Polyphenylene sulfide, 40% glass filled, UL 94V-0 rated  
**Contacts** — Phosphor bronze with .000200 [0.00508] 93/7 tin-lead per MIL-T-10727 Type I over 0.00127 [.000050] nickel per QQ-N-290

**Packaging Quantities**

- 20 Positions:**  
38 Pcs./Tube\*, 84 Tubes/Box  
Total = 3192 Pcs./Box  
Tape Mounted = 400/Reel\*
- 28 Positions:**  
32 Pcs./Tube\*, 70 Tubes/Box  
Total = 2240 Pcs./Box  
Tape Mounted = 400/Reel\*
- 44 Positions:**  
25 Pcs./Tube\*, 56 Tubes/Box  
Total = 1400 Pcs./Box  
Tape Mounted = 250/Reel\*
- 52 Positions:**  
21 Pcs./Tube\*, 49 Tubes/Box  
Total = 1029 Pcs./Box  
Tape Mounted = 250/Reel\*
- 68 Positions:**  
18 Pcs./Tube\*, 42 Tubes/Box  
Total = 756 Pcs./Box  
Tape Mounted = 220/Reel\*
- 84 Positions:**  
15 Pcs./Tube\*, 35 Tubes/Box  
Total = 525 Pcs./Box  
Tape Mounted = 150/Reel\*

\*Minimum order quantity.



**Extraction Tools**



No. of Pos.	Part Number
20	822011-1
28	822045-1
44	821981-1
52	822049-1
68	822026-1
84	822268-1

**All Purpose Tool**  
Part No. 822154-1



**Recommended Chip Carrier**

No. of Pos.	Dimensions											Low Insertion Force	
	A	B	C	D	E	F	G	H	J	K	L	Without Locating Posts	Tape Mounted Without Locating Posts
20	5.08 .200	5.08 .200	14.35 .565	14.35 .565	9.25 .364	9.91 .390	8.97 .353	9.91 .390	8.97 .353	4.57 .180	1.47-2.24 .058-.088	822269-1	3-822269-1
28	7.62 .300	7.62 .300	16.89 .665	16.89 .665	11.79 .464	12.45 .490	11.51 .453	12.45 .490	11.51 .453	4.57 .180	1.47-2.24 .058-.088	822271-1	3-822271-1
32	See Page 69												
44	12.7 .500	12.7 .500	21.97 .865	21.97 .865	16.87 .664	17.53 .690	16.59 .653	17.53 .690	16.59 .653	4.57 .180	1.47-2.24 .058-.088	822275-1	3-822275-1
52	15.24 .600	15.24 .600	25.4 1.000	25.4 1.000	19.41 .764	20.07 .790	19.13 .753	20.07 .790	19.13 .753	5.08 .200	1.37-2.13 .054-.084	822277-1	3-822277-1
68	20.32 .800	20.32 .800	30.48 1.200	30.48 1.200	24.48 .964	25.15 .990	24.23 .954	25.15 .990	24.23 .954	5.08 .200	1.37-2.13 .054-.084	822279-1	3-822279-1
84	25.40 1.000	25.40 1.000	35.56 1.400	35.56 1.400	29.57 1.164	30.23 1.190	29.31 1.154	30.23 1.190	29.31 1.154	5.08 .200	1.37-2.13 .054-.084	822281-1	3-822281-1

**PLCC Sockets (Continued)**

**Low Profile, Surface Mount (Continued)**

**Rectangular Socket —  
32 Positions**

**Materials and Finish**

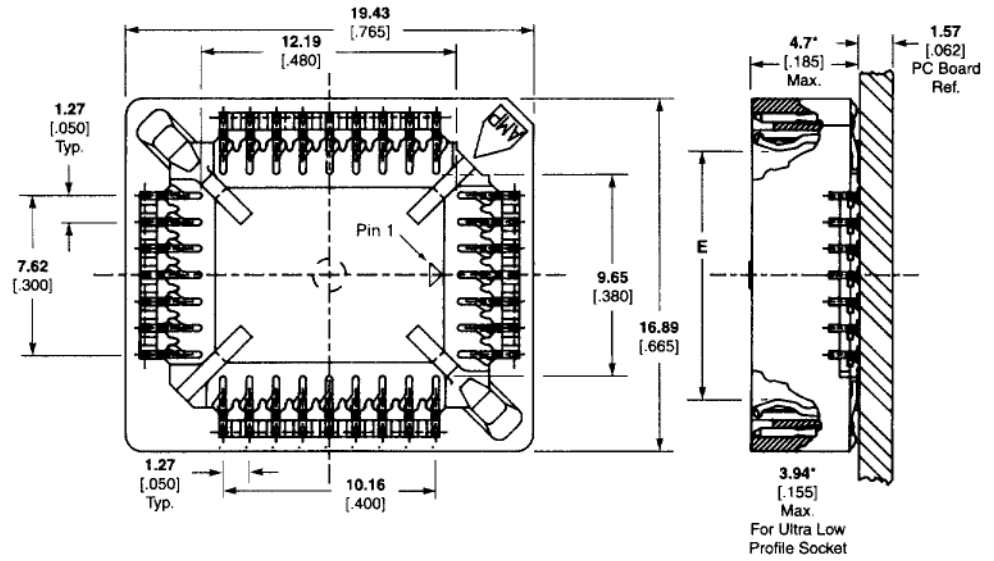
**Housing** — Polyphenylene sulfide, 40% glass filled, UL 94V-0 rated

**Contacts** — Phosphor bronze with 0.00508 [0.00200] 93/7 tin-lead per MIL-T-10727 Type I over 0.00127 [0.00050] nickel per QQ-N-290

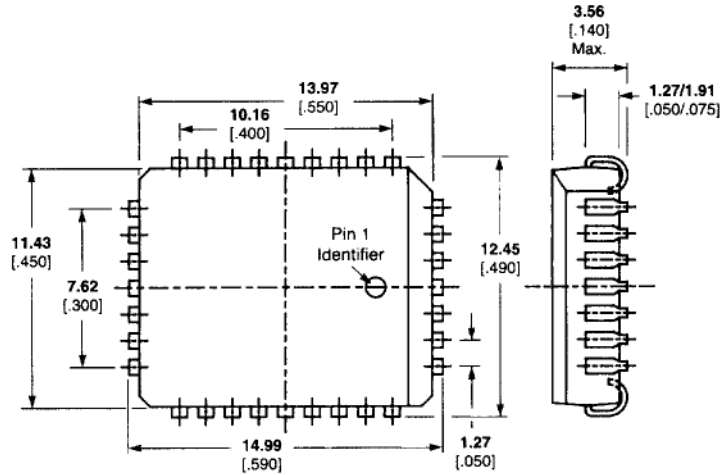
**Packaging Quantities**

28 Pcs./Tube\*, 70 Tubes/Box  
Total = 1960 Pcs./Box  
Tape Mounted = 400/Reel\*

\*Minimum order quantity.



**Extraction Tool  
Part No. 821980-1**



**All Purpose Tool  
Part No. 822154-1**



**Recommended Chip Carrier**

No. of Pos.	Dimension		Low Insertion Force	
	E	Description	Without Locating Posts	Tape Mounted Without Locating Posts
32	14.44	Long Side (9 Contacts)	822273-1	3-822273-1
	11.79	Short Side (7 Contacts)		
No. of Pos.	Dimension		Ultra Low Profile Socket	
	E	Description	Without Locating Posts	Tape Mounted Without Locating Posts
32	14.35	Long Side (9 Contacts)	822403-1	3-822403-1
	11.81	Short Side (7 Contacts)		