

Integrated Circuit (IC) Products

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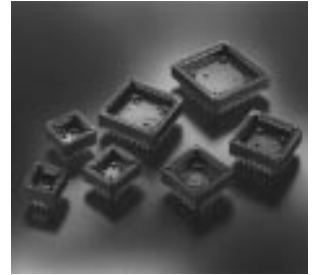
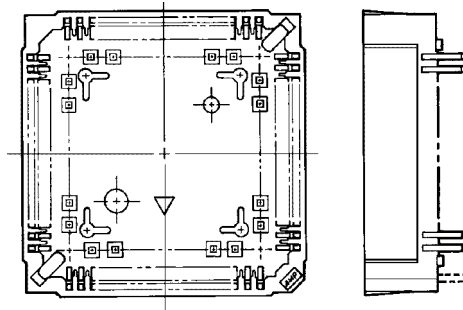
PLCC Sockets — (HPT) with Solder Tails

Material and Finish

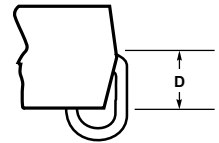
Housing Material — PPS or PCT, UL 94V-0 rated

Contacts — Phosphor bronze

Plating — .000150 [0.00381] min. tin-lead (93-7) over .000040 [0.00102] min. nickel



No. of Pos.	Package Configuration	PLCC Dim. D			With Plastic ¹ Polarizing Pin
		.055-.075' [1.40-1.91]	.055-.075' ² [1.40-1.91]	.070-.090' [1.78-2.29]	
20	Square	821815-1	—	—	—
28	Square	821581-1	3-821581-1	821581-3	—
32	Rectangular	821665-1	3-821665-1	—	822147-1
44	Square	821575-1	3-821575-1	821575-3	—
52	Square	821551-1	—	821739-3	—
68	Square	821574-1	3-821574-1	821574-3	822149-1
84	Square	821573-1	3-821573-1	821573-3	—



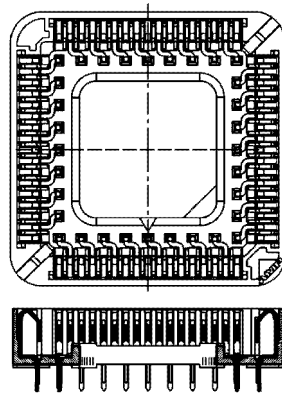
¹Packaged in trays. ²Packaged in tubes.

PLCC Sockets — Low Profile with Solder Tails

Material and Finish

Housing — High temperature PCT polyester

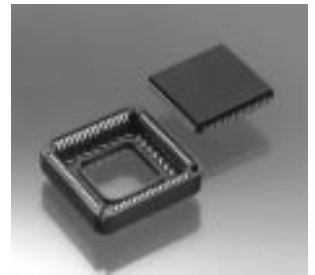
Contact — Phosphor bronze with .000100 [0.00254] min. thick precoated tin finish



52-Position —
Part Number **822437-4**

68-Position —
Part Number **822437-5**

84-Position —
Part Number **822437-6**

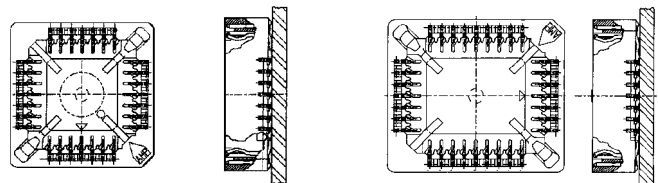


PLCC Sockets — Low Profile, Surface Mount Square Socket and Rectangular Socket

Material and Finish

Housing — Polyphenylene sulfide, 40% glass-filled, 94V-0 rated 220°C

Contact — Phosphor bronze, plated .000200 [0.00508] min. tin-lead per MIL-T-10727 Type I over .000050 [0.00127] min. nickel per QQ-N-290



Square Socket

Rectangular Socket

No. of Pos.	Low Insertion Force			Ultra Low Profile Socket Without Locating Posts
	Without Locating Posts	With Locating Posts	Tape Mounted Without Locating Posts	
20	822269-1	822270-1	3-822269-1	—
28	822271-1	822272-1	3-822271-1	—
32	822273-1 ¹	822274-1 ¹	3-822273-1 ¹	822403-1 ¹
44	822275-1	822276-1	3-822275-1	—
52	822277-1	822278-1	3-822277-1	—
68	822279-1	822280-1	3-822279-1	—
84	822281-1	822282-1	3-822281-1	—

¹Rectangular Socket Part Numbers

BLUE part numbers indicate 2D geometry and 3D CAD models that are included on CD-ROM.

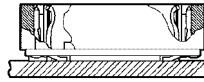
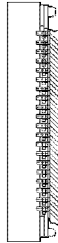
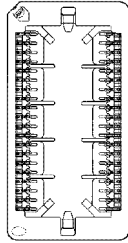
Integrated Circuit (IC) Products (Continued)

PLCC Sockets — Low Profile, SOJ-Style Surface Mount Sockets

40-Position,
.400 [10.16] Centerlines

Material and Finish

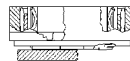
Housing — Polyphenylene sulfide, 94V-0 rated
Contacts — Phosphor bronze, plated .000200 [0.00508] min. 93/7 tin-lead over .000050 [0.00127] min. nickel underplating



Part Number **822265-2**
Without Locating Pins,
Tube Packaged

Part Number **3-822265-2**
Without Locating Pins,
Tape Mounted

32-Position,
.300 [7.62] Centerlines

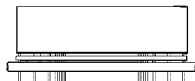
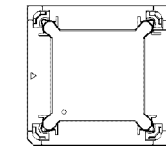


Part Number **3-822374-1**
Without Locating Pins,
Tape Mounted

PQFP Sockets, MICRO-PITCH — Standard

Material and Finish

Housing — High temperature thermo-plastic, 94V-0 rated, black
Cover — Polyphenylene sulfide (PPS), 94V-0 rated, black
Contacts — Phosphor bronze, plated .000200 [0.00508] min. tin over .000050 [0.00127] min. nickel underplating



100-Position — Conventional Housing, Part No. 821949-4
Cover, Part No. 821939-1

132-Position — Conventional Housing, Part No. 821949-5
Cover, Part No. 821942-1

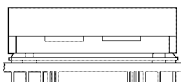
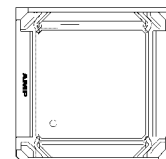


Typical PQFP Socket Application

PQFP Sockets, MICRO-PITCH—Metric for JEDEC Metric Quad Flat Pack ICs

Material and Finish

Housing — High temperature thermo-plastic, 94V-0 rated, black
Contacts — Phosphor bronze, plated 0.00508 [.000200] min. tin-lead over 0.00127 [.000050] min. nickel underplating



144-Position — Housing, Part No. 822114-3
Cover, Part No. 822115-3

160-Position — Housing, Part No. 822114-4
Cover, Part No. 822115-4

BLUE part numbers indicate 2D geometry and 3D CAD models that are included on CD-ROM.

Socket Patterns

Material and Finish

Single Actuated ZIF (SLZ) and Screwdriver Actuated ZIF (SAZ):

Housing — High temperature thermoplastic

Contacts — Copper alloy plated .000030 [0.00076] min. gold over .000050 [0.00127] min. nickel in contact area; .000150 [0.00381] min. tin-lead over .000050 [0.00127] min. nickel in solder area

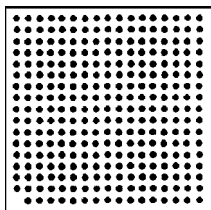
Actuator (SLZ) — Zinc alloy

Handle Actuated ZIF (HAZ):

Housing and Cover — LCP

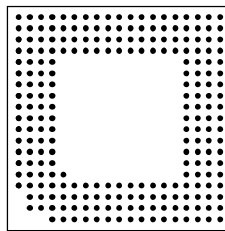
Contacts — Beryllium copper plated .000030 [0.00076] min. gold over .000075 [0.00191] min. nickel in contact area; .000150 [0.00381] min. tin-lead over .000050 [0.00127] min. nickel in solder area

Pattern A



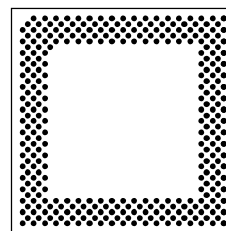
17 x 17
288 Positions
Power PC™

Pattern B



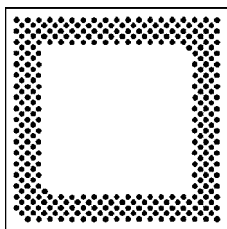
19 x 19
237 Positions
Molded Socket 3

Pattern C



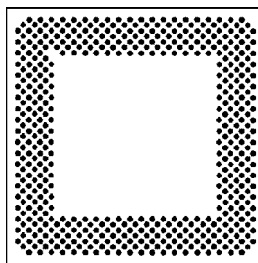
19 x 19
320 Positions
Pentium™
Molded Socket 5

Pattern D



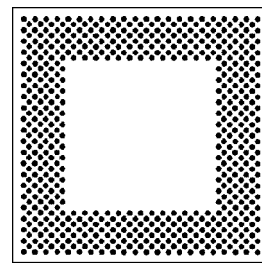
19 x 19
321 Positions
Pentium™
Molded Socket 7

Pattern E



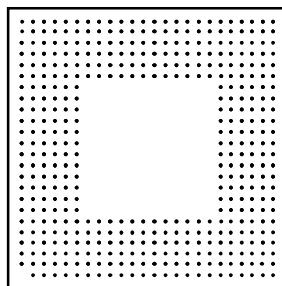
22 x 22
499 Positions
Molded Socket
499 (DEC)

Pattern F



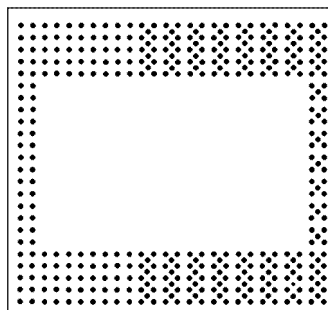
22 x 22
560 Positions

Pattern G



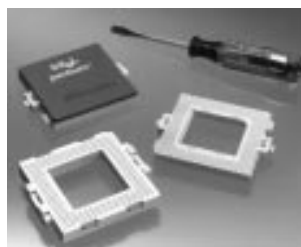
24 x 24
431 Positions
Digital 21064

Pattern H



26 x 24
387 Positions
Pentium™ Pro
Molded Socket 8

Screwdriver Actuated ZIF (SAZ) Sockets



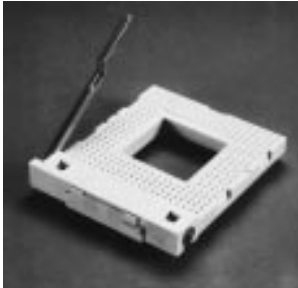
Pattern Style	Solder Tail Length	Part No.
C	.080	916707-1 ²
	2.03	
	.090	916707-2 ^{1,2}
	2.29	
	.080	916727-1 ¹
	2.03	
D	.110	916635-1
	2.79	
D	.090	916732-2 ^{1,3}
	2.29	

¹ Low profile ² Rotate pattern 90° clockwise ³ Heat sink compatible

PGA Sockets

Integrated Circuit (IC) Products (Continued)

Single Lever ZIF (SLZ) Sockets, Open Center, Heat Sink Compatible



Pattern Style	Solder Tail Length	Part Number	Pattern Style	Solder Tail Length	Part Number	
A	.110 2.79	916668-1 ³	D	.110 2.79	916658-3 ^{2,6}	
	.113 2.87	916668-4 ¹		.090 2.29	916715-2 ^{2,6,7}	
B	.110 2.79	916541-1		.080 2.03	916716-1 ^{6,7}	
	C	.110 2.79		916560-1	.090 2.29	916716-2 ^{6,7}
.110 2.79		916637-1		.110 2.79	916716-3 ^{6,7}	
D	.080 2.03	916756-1 ^{2,5,6}		.080 2.03	916774-1 ^{2,6,7}	
	.090 2.29	916756-2 ^{2,5,6}		E	.110 2.79	916583-1
	.110 2.79	916756-3 ^{2,5,6}		G	.110 2.79	916603-1
	.080 2.03	916657-1 ⁶			.090 2.29	916680-2 ⁴
	.090 2.29	916657-2 ⁶		H	.110 2.79	916680-3
	.110 2.79	916657-3 ⁶	.080 2.03		916738-1	
	.080 2.03	916658-1 ^{2,6}	.090 2.29		916738-2	
	.090 2.29	916658-2 ²	.110 2.79		916738-3	

¹ .050 [1.27] tall standoffs

² .000015 [0.00038] thick gold over nickel on contacts

³ Full grid, not open center

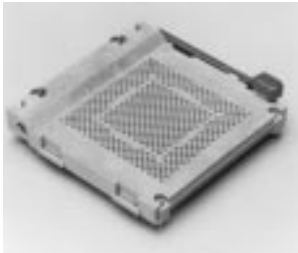
⁴ .000015 [0.00038] thick gold over nickel on solder tails

⁵ Heat sink stops

⁶ Low Profile

⁷ Short handle

Handle Actuated ZIF (HAZ) Socket



Pattern Style	Solder Tail Length	Part Number
F	.170 4.32	382676-4

DIP Sockets

Integrated Circuit (IC) Products (Continued)

DIP Sockets — DL Standard

Material and Finish

Housing — Glass-filled thermoplastic, 94V-0 rated, black

Contacts — Phosphor bronze or beryllium copper with tin or gold plating



No. of Pos.	Sockets with Straight Solder Tails ¹				Sockets with Retention Solder Tails ¹			
	Beryllium Copper		Phosphor Bronze		Beryllium Copper		Phosphor Bronze	
	Tinned	.000030 [0.00076] Gold Plate	Tinned	.000015 [0.00038] Gold Plate	Tinned	.000030 [0.00076] Gold Plate	Tinned	.000015 [0.00038] Gold Plate
6 ²	2-641296-1	2-641296-2	2-641296-3	2-641296-4	2-641259-1	—	2-641259-3	—
8 ²	2-640463-1	2-640463-2	2-640463-3	2-640463-4	2-641260-1	—	2-641260-3	2-641260-4
14	2-641599-1	2-641599-2	2-641599-3	2-641599-4	2-641609-1	—	2-641609-3	2-641609-4
16	2-641600-1	2-641600-2	2-641600-3	2-641600-4	2-641610-1	—	2-641610-3	2-641610-4
18	2-641601-1	—	2-641601-3	—	—	—	2-641611-3	—
20	2-641602-1	2-641602-2	2-641602-3	2-641602-4	2-641612-1	2-641612-2	2-641612-3	—
22	—	—	2-641603-3	—	—	—	—	—
24	2-641932-1	2-641932-2	2-641932-3	2-641932-4	2-641933-1	—	2-641933-3	—
24	2-641604-1	2-641604-2	2-641604-3	2-641604-4	—	—	2-641614-3	—
28	2-382571-1	—	2-382571-3	—	—	—	—	—
28	2-641605-1	2-641605-2	2-641605-3	2-641605-4	2-641615-1	2-641615-2	2-641615-3	2-641615-4
40	2-641606-1	2-641606-2	2-641606-3	2-641606-4	2-641616-1	2-641616-2	2-641616-3	—
42	—	—	2-382374-3	—	—	—	—	—
48	2-643574-1	—	2-643574-3	—	—	—	—	—
64	643575-1	—	643575-3	—	—	—	—	—

¹ ONLY sockets with straight solder tails are recommended for automatic insertion. All parts are packaged in plastic tubes. Sockets with retention feature are packaged in plastic tubes for handling and storage convenience only.

² Closed frame design.

DIP Sockets — DL Standard, Over-the-Component (OTC) Style

Material and Finish

Housing — Glass-filled thermoplastic, 94V-0 rated, black

Contacts — Phosphor bronze or beryllium copper with tin or gold plating



No. of Pos.	Sockets with Straight Solder Tails				Sockets with Retention Solder Tails		
	Beryllium Copper		Phosphor Bronze		Beryllium Copper		Phosphor Bronze
	Tinned	.000030 [0.00076] ¹ Gold Plate	Tinned	.000015 [0.00038] ¹ Gold Plate	Tinned	.000030 [0.00076] ¹ Gold Plate	Tinned
28	—	—	2-382415-3	—	—	—	—
32	2-644018-1	2-644018-2	2-644018-3	2-644018-4	2-382189-1	2-382189-2	2-382189-3
40	—	—	2-382153-3	—	—	—	—

¹ Gold thickness in contact area with tin-lead plate on solder tails. All parts packaged in plastic tubes.

SIP Sockets and Miniature Spring Sockets

DIP Sockets — DL Surface Mount and Surface Mount Compatible

Material and Finish

Housing — PCT Glass reinforced, 94V-0 rated, brown (14-position part numbers (X-382463-X) are glass filled polyester, 94V-0 rated, black)

Contacts — Phosphor bronze or beryllium copper with tin or gold plating



Integrated Circuit (IC) Products (Continued)

No. of Pos.	Phosphor Bronze		Through-Hole ^{1,2}	Beryllium Copper
	Surface Mount ¹			Surface Mount ¹
	Tinned	Gold Plate ³	Tinned	Tinned
8	2-382401-3 8-382401-3 ⁴	—	—	—
14	2-382402-3	2-382402-4	—	—
16	2-382403-3	—	—	—
18	2-382404-3	—	—	—
20	—	2-382405-4	2-382465-3	—
24	2-382408-3	—	—	—
28	—	—	—	2-382636-1
28	2-382409-3	2-382409-4	2-382467-3	2-382409-1
32	2-382424-3	—	2-382470-3	—
40	2-382411-3	—	—	—

¹ All parts packaged in plastic tubes.

² Through-hole sockets are compatible with surface mount soldering practices except where noted.

³ Two .000015 [0.00038] min. thick gold stripes in contact area with tin-lead (93/7) on solder tails and nickel on balance of contact.

⁴ Tape and reel packaged.

SIP Sockets — Solder Tail Dual Leaf (DL)

Material and Finish

Housing — Glass-filled thermoplastic, 94V-0 rated, black

Contacts — Beryllium copper with tin plating



No. of Pos.	Straight Solder Tail		Retention Solder Tail	
	Beryllium Copper	Phosphor Bronze	Beryllium Copper	Phosphor Bronze
	Tinned	Tinned	Tinned	Tinned
3	—	382437-3	—	—
4	382438-1	—	—	—
5	382439-1	—	—	—
6	382440-1	—	—	—
7	382441-1	—	—	—
8	643640-1	643640-3	—	—
9	—	643641-3	643641-6	—
10	643642-1	643642-3	—	643642-8
12	643644-1	643644-3	643644-6	—
14	643646-1	643646-3	643646-6	643646-8
15	643647-1	—	643647-6	—
16	643648-1	643648-3	—	—
18	643650-1	—	643650-6	—
19	—	—	—	—
20	643652-1	643652-3	643652-6	—
24	—	643656-3	—	—
25	643657-1	—	—	—

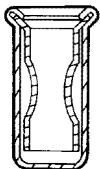
Miniature Spring Sockets —

Material

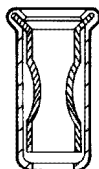
Spring — Beryllium copper
Contact Sleeve — Copper

Flat Bottom Sockets

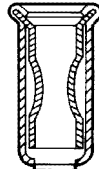
Closed Bottom



Open Bottom



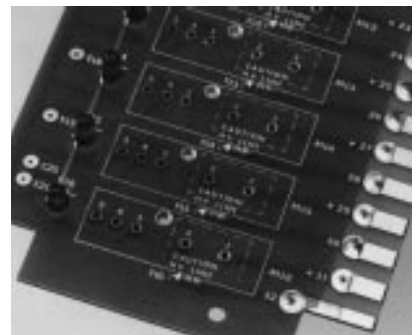
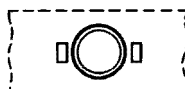
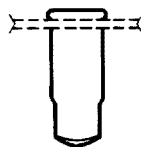
Knockout Bottom



Bullet Nose Sockets (Loose Piece and Tape Mounted)

Material

Spring — Beryllium copper
Contact Sleeve — Copper



Miniature Spring Sockets — (Continued)

Series 1 Sockets — For .012–.021
[0.30–0.53] Round and .009–.015
[0.23–0.38] Square Leads³

Integrated Circuit (IC) Products (Continued)

Flat Bottom — Recommended Hole Size: $.041^{+.003}_{-.000}$ [$1.04^{+0.08}_{-0.00}$] for Semiautomatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Closed Bottom	Knockout Bottom
.013–.020 0.33–0.51	Gold ¹	Gold ²	2-330808-8	3-330808-8
	Gold ¹	Tin	6-330808-5	5-330808-3
	Tin	Tin	2-330808-7	—
.013–.020 0.33–0.51	Gold ¹	Gold ²	2-332095-1	2-332095-2

Bullet Nose — Recommended Hole Size:

$.042^{+.003}_{-.000}$ [$1.07^{+0.08}_{-0.00}$] for Semiautomatic/Automatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Loose Piece	Part Numbers	
	Spring	Sleeve		Polyester Carrier Tape	
				Without Sealant 50,000/Reel	With Sealant 50,000/Reel
.012–.021 0.30–0.53	Gold ¹	Tin	645946-2	—	—
		Gold ²		—	—
.015–.021 0.38–0.53	Tin	Tin	645945-1	—	645947-1
		Gold ²		—	—

¹ .000030 [0.00076] gold plating. ² Gold flash.

³ To calculate diameter required for rectangular or square leads:

$$\text{Pin Diameter} = \sqrt{(\text{Lead Width})^2 + (\text{Lead Thickness})^2} - .003 [0.08].$$

Series 2 Sockets — For .014–.026
[0.36–0.66] Round and .010–.018
[0.25–0.46] Square Leads³

Flat Bottom — Recommended Hole Size: $.052^{+.003}_{-.000}$ [$1.32^{+0.08}_{-0.00}$] for Semiautomatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Closed Bottom	Knockout Bottom
.028–.021 0.46–0.53	Gold ¹	Gold ²	2-331272-2	3-331272-0
	Gold ¹	Tin	2-331272-3	—
	Gold ¹	Gold ²	50863-4	—
.014–.026 0.36–0.66	Gold ¹	Tin	50863-5	—
	Tin	Tin	50863-8	—
	Gold ¹	Gold ²	2-331272-6	—
.022–.025 0.56–0.64	Gold ¹	Tin	2-331272-7	3-331272-5
	Tin	Tin	2-331272-5	—
.014–.026 0.36–0.66	Gold ¹	Gold ²	50462-6	—
	Tin	Tin	50462-7	—

Bullet Nose — Recommended Hole Size:

$.052^{+.003}_{-.000}$ [$1.32^{+0.08}_{-0.00}$] for Semiautomatic/Automatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Loose Piece	Part Numbers	
	Spring	Sleeve		Polyester Carrier Tape	
				Without Sealant 50,000/Reel	With Sealant 50,000/Reel
.014–.026 0.35–0.66	Gold ¹	Tin	—	—	645955-2
	Tin	Tin	—	—	645955-1

Miniature Spring Sockets — (Continued)

Series 3 Sockets — For .026–.033
[0.66–0.83] Round and .025–.064
[0.64–1.62] Square Leads³

Integrated Circuit (IC) Products (Continued)

Flat Bottom — Recommended Hole Size:

.062⁺.003 [1.57⁺0.08] for Semiautomatic/Automatic Insertion or Hand Insertion
-.000 [-0.00]

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Closed Bottom	Knockout Bottom
.026–.029 0.66–0.74	Gold ¹	Tin	—	3-331677-2
.026–.033 0.66–0.84	Gold ¹	Tin	50864-1	50864-3
	Tin	Tin	50864-6	—
.030–.033 0.76–0.84	Gold ¹	Gold ²	1-331677-4	2-331677-9
	Gold ¹	Tin	1-331677-8	3-331677-4
	Tin	Tin	1-331677-3	—

Bullet Nose — Recommended Hole Size:

.062⁺.003 [1.57⁺0.08] for Semiautomatic/Automatic Insertion or Hand Insertion
-.000 [-0.00]

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Polyester Carrier Tape	
			Without Sealant 10,000/Reel	With Sealant 10,000/Reel
.028–.033 0.71–0.84	Gold ¹	Tin	—	1-645986-2

¹ .000030 [0.00076] gold plating

² Gold flash.

³ To calculate diameter required for rectangular or square leads:

$$\text{Pin Diameter} = \left[\sqrt{(\text{Lead Width})^2 + (\text{Lead Thickness})^2} \right] - .003 [0.08].$$

⁴ Applies to Open Bottom and Knockout Bottom Sockets only.

Series 4 Sockets — For .034–.041
[0.86–1.04] Round and .026–.031
[0.66–0.79] Square Leads³

Flat Bottom — Recommended Hole Size:

.071⁺.003 [1.80⁺0.08] for Semiautomatic Insertion or Hand Insertion
-.000 [-0.00]

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Closed Bottom	Knockout Bottom
.034–.041 0.86–1.04	Gold ¹	Tin	50865-5	50865-1
	Tin	Tin	50865-8	50865-7
.037–.040 0.94–1.02	Gold ¹	Gold ²	1-332070-1	1-332070-7
	Gold ¹	Tin	2-332070-3	3-332070-5
	Tin	Tin	2-332070-2	3-332070-4

Bullet Nose — Recommended Hole Size:

.069⁺.003 [1.75⁺0.08] for Semiautomatic/Automatic Insertion or Hand Insertion
-.000 [-0.00]

Pin Dia. Range	Finish		Loose Piece	Part Numbers	
	Spring	Sleeve		Polyester Carrier Tape	
				Without Sealant 10,000/Reel	With Sealant 10,000/Reel
.037–.041 0.94–1.04	Gold ¹	Tin	645500-1	1-645502-1	—
	Tin	Tin	—	—	1-645501-2

Miniature Spring Sockets — (Continued)

Integrated Circuit (IC) Products (Continued)

Series 5 Sockets — For .042–.065 [1.07–1.65] Round and .032–.048 [0.81–1.22] Square Leads³

Flat Bottom — Recommended Hole Size: $.102^{+.003}_{-.000}$ [2.59^{+0.08}_{-0.00}] for Semiautomatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Part Numbers	
	Spring	Sleeve	Closed Bottom	Knockout Bottom
.042–.049 1.07–1.24	Gold ¹	Tin	50871-5	50871-1
	Tin	Tin	50871-8	—
.056–.065 1.42–1.65	Gold ¹	Gold ²	—	1-50871-8
	Gold ¹	Tin	2-50871-3	1-50871-9
	Tin	Tin	2-50871-6	2-50871-4

Bullet Nose — Recommended Hole Size: $.102^{+.003}_{-.000}$ [2.59^{+0.08}_{-0.00}] for Semiautomatic Insertion or Hand Insertion

Pin Dia. Range	Finish		Loose Piece	Part Numbers	
	Spring	Sleeve		Without Sealant 10,000/Reel	With Sealant 10,000/Reel
.042–.049 1.07–1.24	Gold ²	Tin	—	1-645979-2	—
	Tin	Tin	645980-1	—	—

¹.000030 [0.00076] gold plating.

²Gold flash.

³To calculate diameter required for rectangular or square leads:

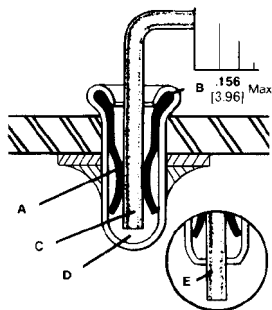
$$\text{Pin Diameter} = \left[\sqrt{(\text{Lead Width})^2 + (\text{Lead Thickness})^2} \right] - .003 [0.08].$$

*Applies to Open Bottom and Knockout Bottom Sockets only.

Test Sockets

Reusable Receptacles for Component Testing

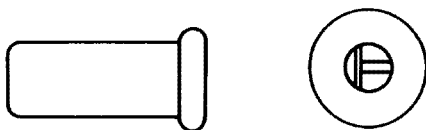
Typical Application



- A.** Receptacle spring member assures true readings by maintaining uniform pressure to create maximum conductivity and hold component lead in place.
- B.** Flared lip acts as a stop for the socket and creates a bellmouth entry for easy insertion of component leads.
- C.** Receptacles firmly retain component leads in two ranges: .018–.040 [0.46–1.02] and .036–.051 [0.19–1.30].
- D.** Drawn copper cup in all sizes and styles is inserted into .089 [2.26] mounting hole.
- E.** Open-end styles are available for lead feed-through.



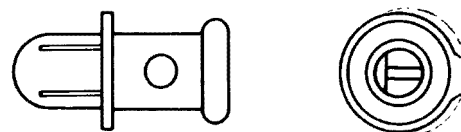
Open Bottom



Accepts Lead Size	Finish		Part Number
	Cup	Spring	
.018–.040 0.46–1.02	Tin-Lead	Gold ¹	380635-2
	Tin-Lead	Tin-Lead	380635-5

¹.000030 [0.00076] gold plating over nickel plating.

Stand-Off



Accepts Lead Size	Finish		Part Number
	Cup	Spring	
.018–.040 0.46–1.02	Tin-Lead	Gold ¹	1-380737-0
	Tin-Lead	Tin-Lead	640593-1

¹.000030 [0.00076] gold plating over nickel plating.