

INTRODUCTION:

Adam Tech SMT PLCC Series Sockets are low profile, thin wall sockets designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to all applicable EIA and JEDEC standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator
- Open frame design for viewable solder joints

MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC compliant PLCC

SPECIFICATIONS:

Material:

Standard Hi-Temp insulator: PPS, Glass reinforced, rated UL94V-0
Insulator Color: Brown
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 6.35 oz max.
Withdrawal force: 1.0 oz min

Temperature Rating:

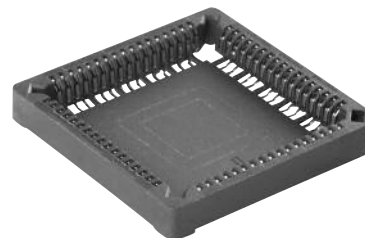
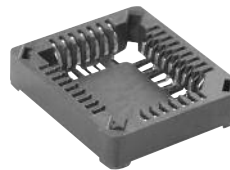
Operating temperature: -55°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

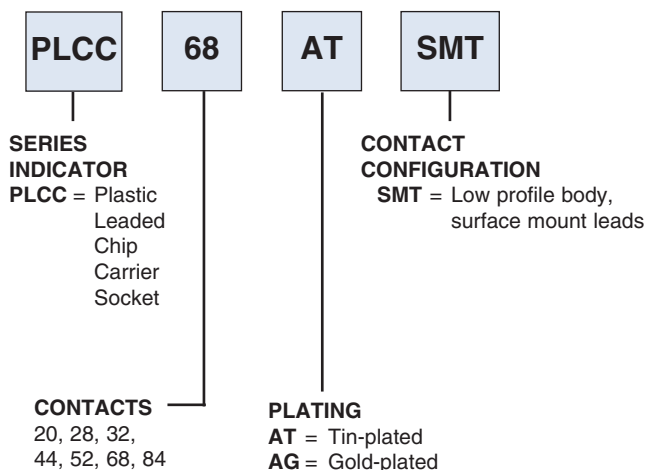
Anti-ESD plastic tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION

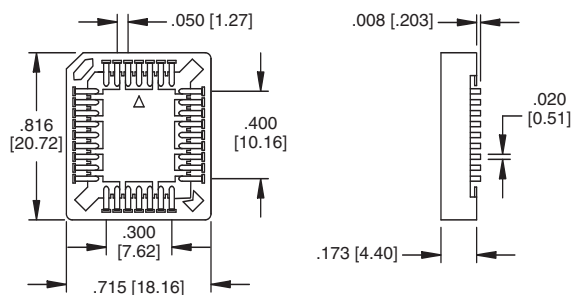


OPTIONS:

Add designator(s) to end of part number
P = With polarizing pegs
TR = Tape and reel packaging

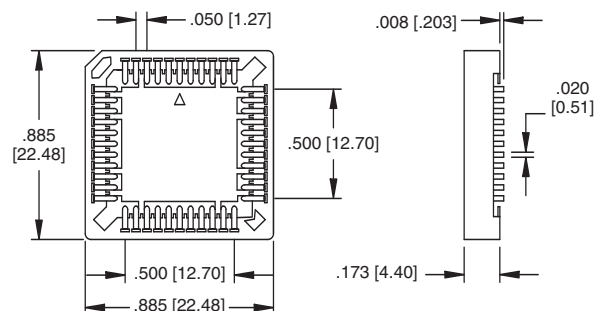
PLCC-32-AT-SMT

32 PIN



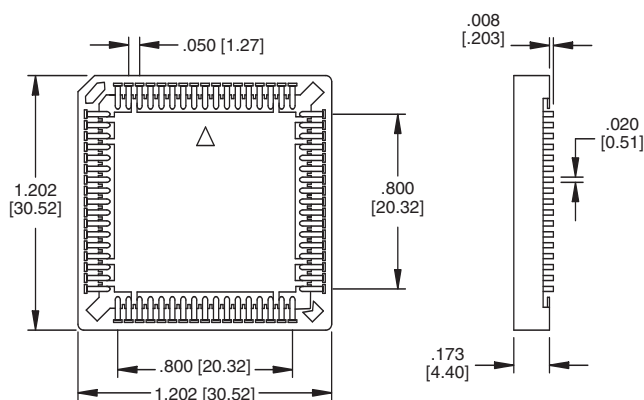
PLCC-44-AT-SMT

44 PIN



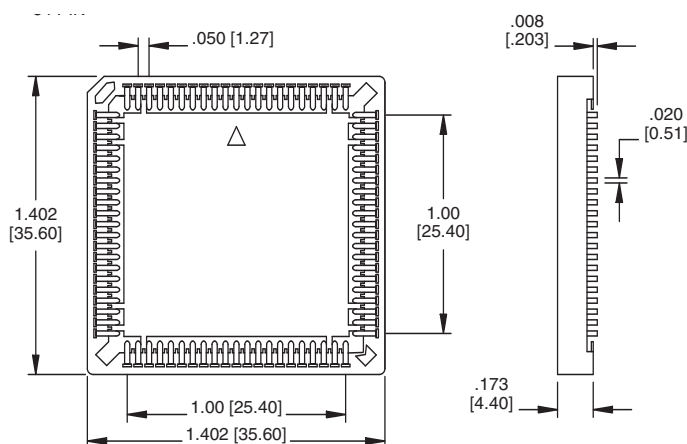
PLCC-68-AT-SMT

68 PIN

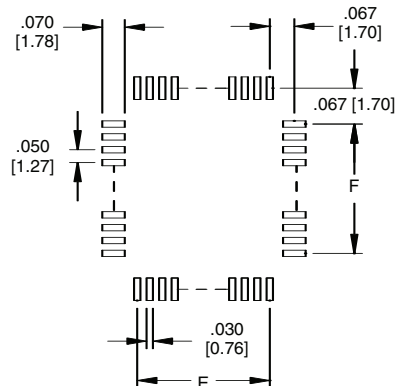


PLCC-84-AT-SMT

84 PIN



Recommended Solder Pad Layout



POSITIONS	E	F
20	.200 [5.08]	.200 [5.08]
28	.300 [7.62]	.300 [7.62]
32	.300 [7.62]	.400 [10.16]
44	.500 [12.70]	.500 [12.70]
52	.600 [15.24]	.600 [15.24]
68	.800 [20.32]	.800 [20.32]
84	1.000 [25.40]	1.000 [25.40]

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Adam Tech PLCC Series Sockets are designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to all applicable EIA and JEDEC standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator version available

MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC plastic leaded chips

SPECIFICATIONS:

Material:

Standard Insulator: PBT, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: PPS
Insulator Color: Black (Brown for PPS)
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 6.35 oz max.
Withdrawal force: 1.0 oz min

Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

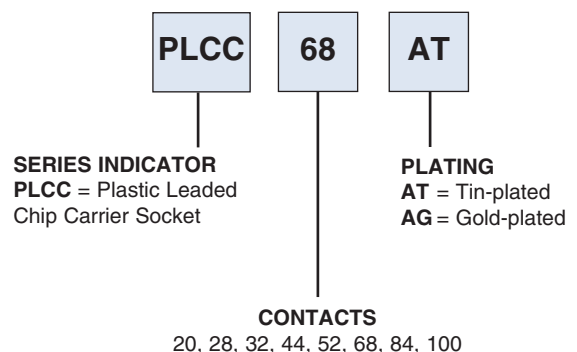
Anti-ESD plastic tubes

APPROVALS AND CERTIFICATIONS:

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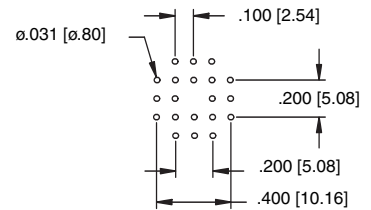
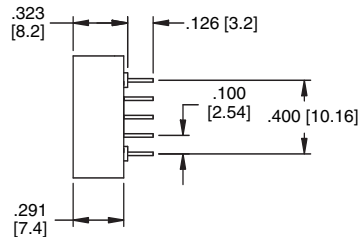
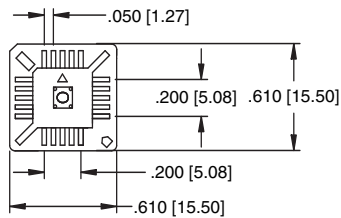


OPTIONS:

Add designator(s) to end of part number

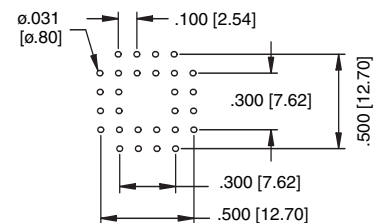
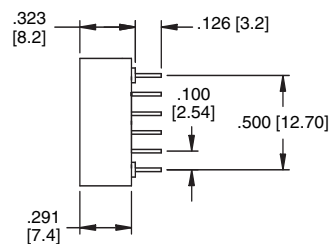
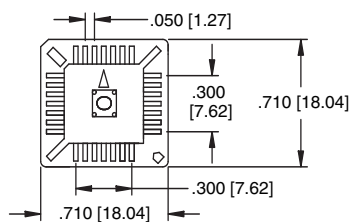
HT = Hi-Temp Polyphenylene Sulfide (PPS) Insulator
Material for hi-temp soldering process up to 260°C

PLCC-20-AT



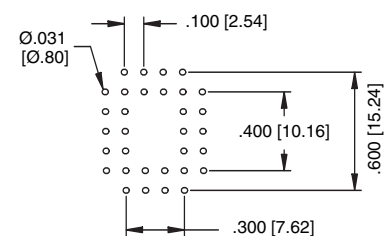
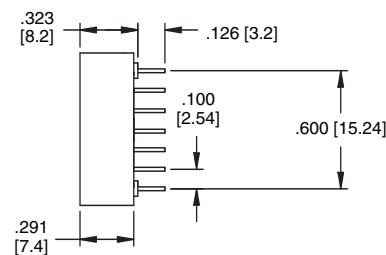
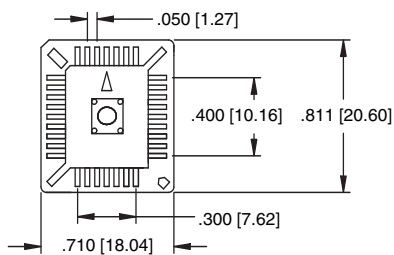
Recommended PCB Layout

PLCC-28-AT



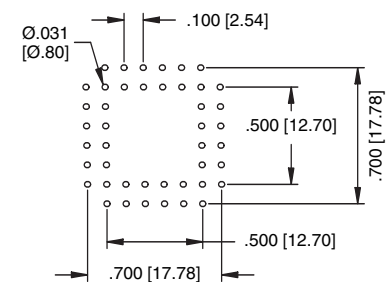
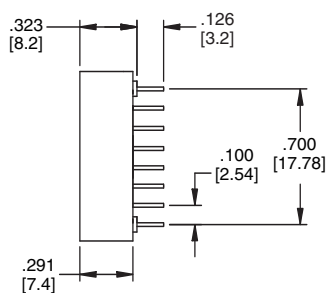
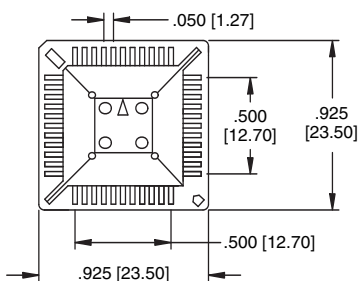
Recommended PCB Layout

PLCC-32-AT



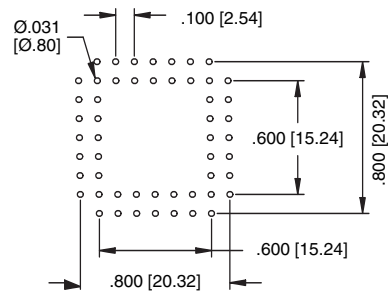
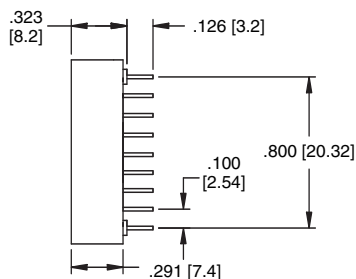
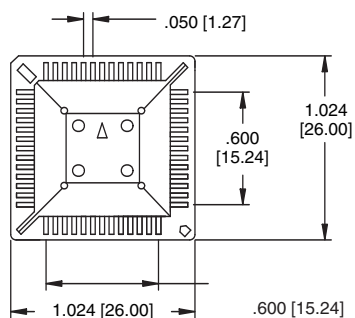
Recommended PCB Layout

PLCC-44-AT



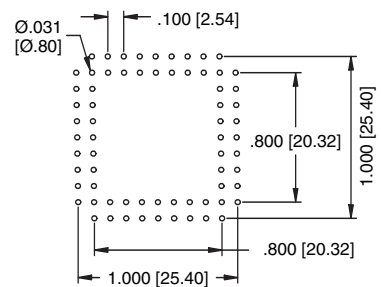
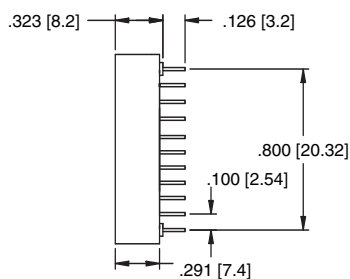
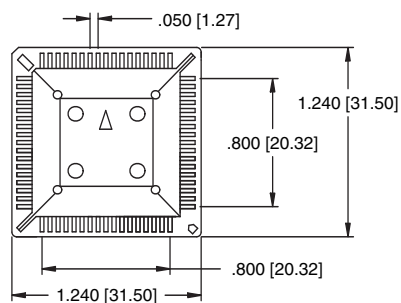
Recommended PCB Layout

PLCC-52-AT



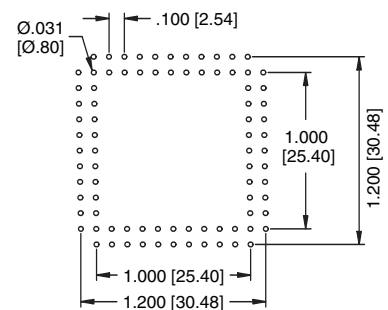
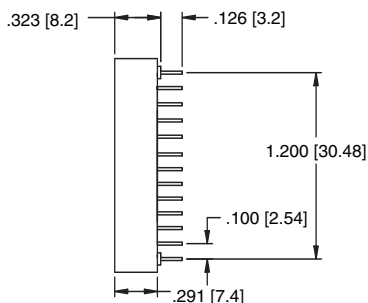
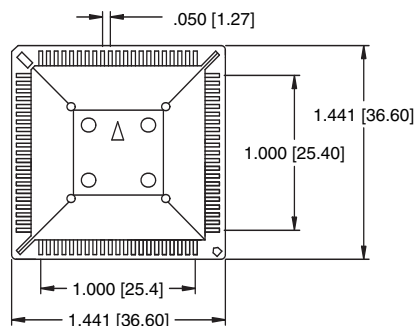
Recommended PCB Layout

PLCC-68-AT



Recommended PCB Layout

PLCC-84-AT



Recommended PCB Layout