

Adam Technologies, Inc.

PLASTIC LEADED CHIP CARRIER SOCKET SURFACE MOUNT PLCC SERIES

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 JEDEC MS 016 and MS 018 pin count 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:

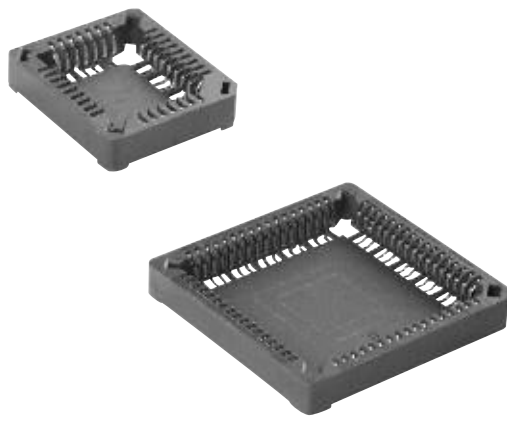
Operating temperature: -55°C to +105°C
 Soldering process temperature: 260°C

PACKAGING:

Anti-ESD plastic tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

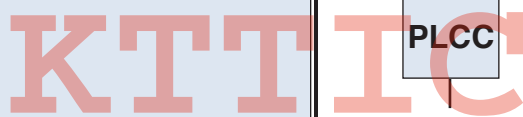


SERIES INDICATOR
PLCC = Plastic Leaded Chip Carrier Socket

CONTACT CONFIGURATION
SMT = Low profile body, surface mount leads

CONTACTS
 20, 28, 32, 44, 52, 68, 84

PLATING
AT = Tin-plated
AG = Gold-plated



OPTIONS:

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

PLCC-32-AT-SMT **32 Position Socket**

PLCC-44-AT-SMT **44 Position Socket**

PLCC-68-AT-SMT **68 Position Socket**

PLCC-84-AT-SMT **84 Position Socket**

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]

INTRODUCTION:

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 JEDEC MS 016 and MS 018 pin count 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:

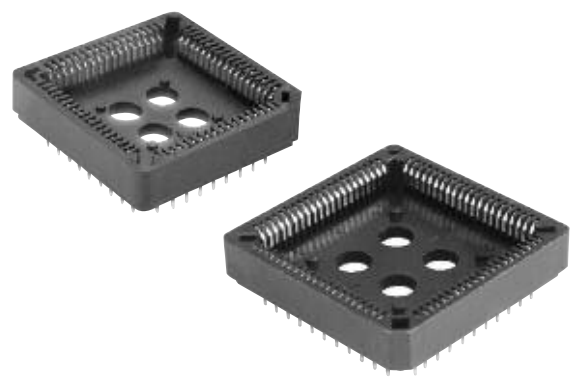
- Operating temperature: -20°C to +85°C
- Soldering process temperature:
 - Standard insulator: 235°C
 - Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic tubes

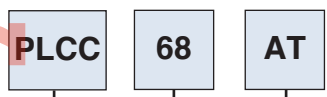
APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

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SERIES INDICATOR
 PLCC = Plastic Leaded
 Chip Carrier Socket

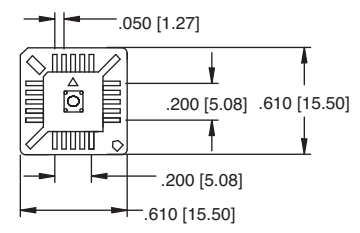
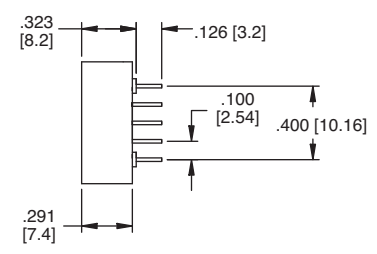
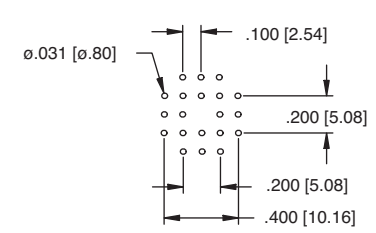
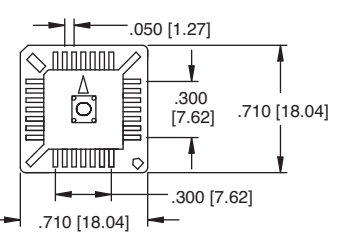
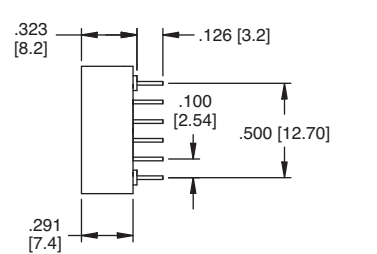
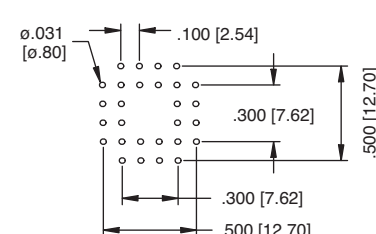
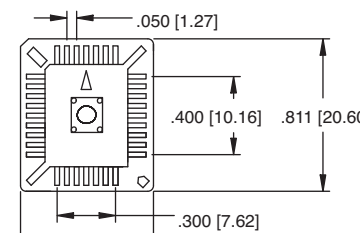
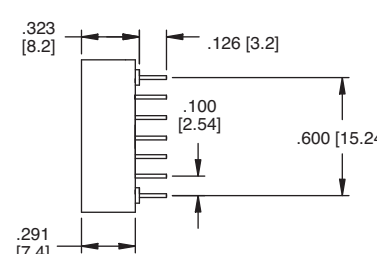
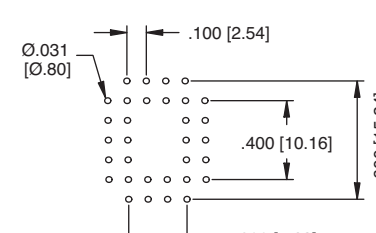
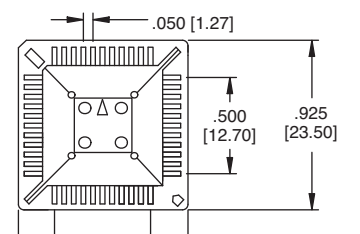
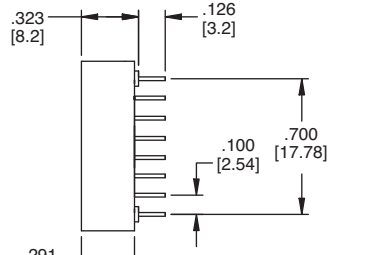
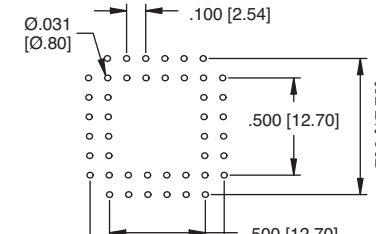
PLATING
 AT = Tin-plated
 AG = Gold-plated

CONTACTS
 20, 28, 32, 44, 52, 68, 84, 100



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

<p>PLCC-20-AT</p> 	<p>20 Position Socket</p> 	<p>20 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-28-AT</p> 	<p>28 Position Socket</p> 	<p>28 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-32-AT</p> 	<p>32 Position Socket</p> 	<p>32 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-44-AT</p> 	<p>44 Position Socket</p> 	<p>44 Position Socket</p>  <p>Recommended PCB Layout</p>

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<p>PLCC-52-AT</p>	<p>52 Position Socket</p>	<p>52 Position Socket</p> <p>Recommended PCB Layout</p>
<p>PLCC-68-AT</p>	<p>68 Position Socket</p>	<p>68 Position Socket</p> <p>Recommended PCB Layout</p>
<p>PLCC-84-AT</p>	<p>84 Position Socket</p>	<p>84 Position Socket</p> <p>Recommended PCB Layout</p>