

Features:

- Soldering BGA Device to adapter subjects BGA to less thermal stress than soldering BGA directly to a PCB due to the adapter's lower mass.
- Uses same footprint as BGA device.
- Custom adapters available for heat sink attachment.
- Gold plated screw-machined terminals for superior durability.
- Unique SMT Adapter provides reliable solution for mounting or socketing LGA or re-worked BGA devices.
- SMT Adapters mate with our BGA Sockets for LGA to BGA conversion or SMT Board to Board applications.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Plating:

G - Gold over Nickel

Gold per MIL-G-45204
Nickel per QQ-N-290

Table of Models

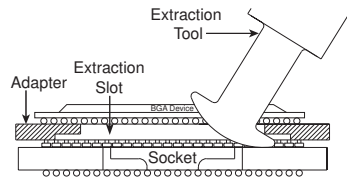
	<p>Description: Standard Adapter (A) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Standard Socket (S)</p>	<p>Insulator Size: BGA device body +.079/(2.00mm)</p>
	<p>Description: Extraction Slot Adapter (AX) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: Mates with Extraction Socket (SB)</p>	<p>Insulator Size: BGA device body +.157/(4.00mm)</p>
	<p>Description: SMT Adapter (A or AX) Material: FR-4 Fiberglass Epoxy Board Index: -40°C to 140°C (-40°F to 284°F) Note: For use with LGA or reworked BGA devices</p>	<p>Insulator Size: BGA device body +.079/(2.00mm)[A] +.157/(4.00mm)[AX]</p>

Options

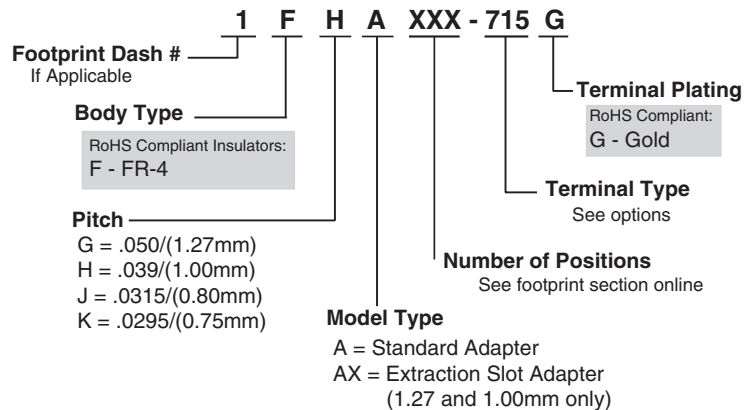


Extraction Tool

- Insert "T" bar end of tool into extraction slot adapter.
- Slide tool to end of slot and pry adapter from socket.
- Repeat in additional slots until adapter is separated from socket.
- Works with LCP or FR-4 sockets.



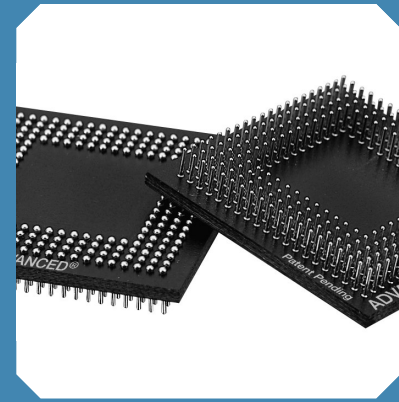
How To Order



5 Energy Way, West Warwick, RI 02893 USA
Tel: 800.424.9850 | 401.823.5200
Fax: 401.823.8723
info@advanced.com | www.advanced.com
Cat. 16 Rev. 1

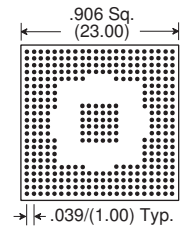
Additional standard and custom terminals available.
See Terminals section online or consult factory.

	Standard Terminals			
	Type -638 1.27mm pitch	Type -715 1.00mm pitch	Type -700 0.80mm pitch	Type -757 0.75mm pitch
Standard				
Male to Male	Type -721 	Type -735 	Type -732 	
	Tin/Lead: Type -720 Lead-free: Type -823	Tin/Lead: Type -737 Lead-free: Type -824	Tin/Lead: Type -736 Lead-free: Type -829	
SMT (Surface Mount)				



Footprints:

360 Pins
Footprint Number 360-2



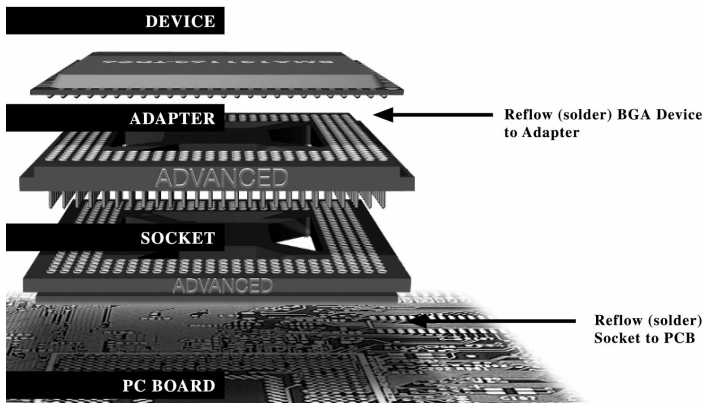
22 x 22 rows

- Footprint specific insulators drilled to exact device pattern
- Over 900 footprints available - search online or request BGA Footprints Booklet
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com

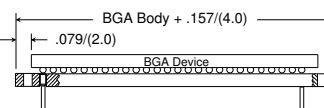
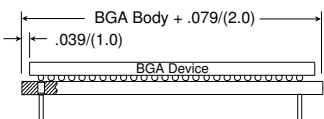
Available Online:

- RoHS Qualification Test Report
- Technical articles
- Test data
- BGA Footprints

How It Works



Dimensional Information



Standard Adapter (A)

- Mates with Standard Socket (S)
- Adapter size equals BGA Device body + .079/(2.00)

Extraction Slot Adapter (AX)

- Slots allow AIC extraction tool (sold separately) to easily remove device/adapter assembly from socket
- Mates with Extraction Socket (SB)
- Adapter size equals BGA Device body + .157/(4.00)

inch/(mm)

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.



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BGA Adapter Sockets

Ball Grid Array (BGA) Adapter Sockets

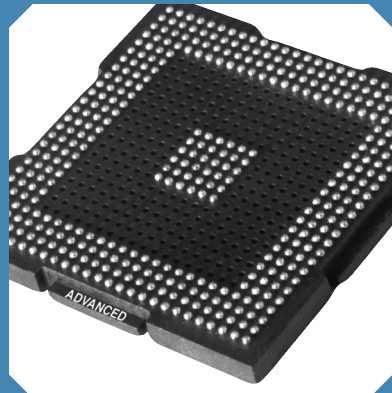


Table of Models

	<p>Description: Standard Socket (S) Material: High Temp. Liquid Crystal Polymer (LCP)* Index: -60°C to 260°C (-76°F to 500°F)</p>	<p>Insulator Size: Same size as BGA device body</p>
	<p>Description: Extraction Socket (SB) Material: High Temp. Liquid Crystal Polymer (LCP)* Index: -60°C to 260°C (-76°F to 500°F)</p>	<p>Insulator Size: BGA device body +.079/(2.00)</p>

RGS/RGSB replaces MGS/MGSB, MHS/MHSB replaces FHS/FHSB.

* Some sizes may only be available in FR-4. See How To Order section or consult factory.

Features:

- Advanced® exclusive solder ball terminals offer superior SMT processing.
- Same footprint as BGA device.
- Proven long-term performance in vigorous temperature cycling applications - solder ball terminal absorbs TCE mismatch.
- Closed bottom socket terminal for 100% anti-wicking of solder.
- Gold contacts allow gold/gold interconnections to Adapter pins.
- Low insertion force socket with multi-fingered high reliability Beryllium Copper contacts.
- Coplanarity consistently under .006 inch industry standard.
- Custom designs available.

Specifications:

Terminals:

Brass - Copper Alloy
 (C36000) ASTM-B-16

Contacts:

Beryllium Copper
 (C17200) ASTM-B-194

Solder Ball:

Standard: 63Sn/37Pb
 Lead-free: 95.5Sn/4.0Ag/0.5Cu

Plating:

G - Gold over Nickel
 Gold per MIL-G-45204
 Nickel per QQ-N-290

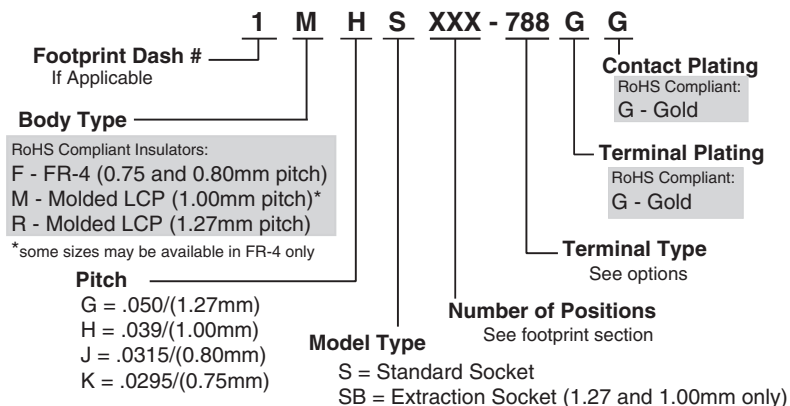
Options



Tape and Reel Packaging

- Conforms to EIA-481 Standard.
- Pick-up tape included.
- Add -TR to end of part number when ordering.
- Custom packaging available
- If -TR is not specified, standard tray packs are used.

How To Order



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inch/(mm)

Ball Grid Array (BGA) Adapter Sockets

BGA Adapter Sockets

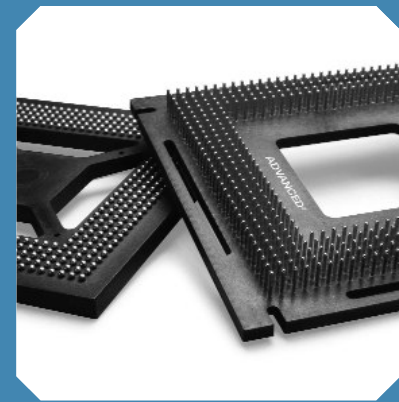
Additional standard and custom terminals available.
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Standard Quick-Turn Terminals

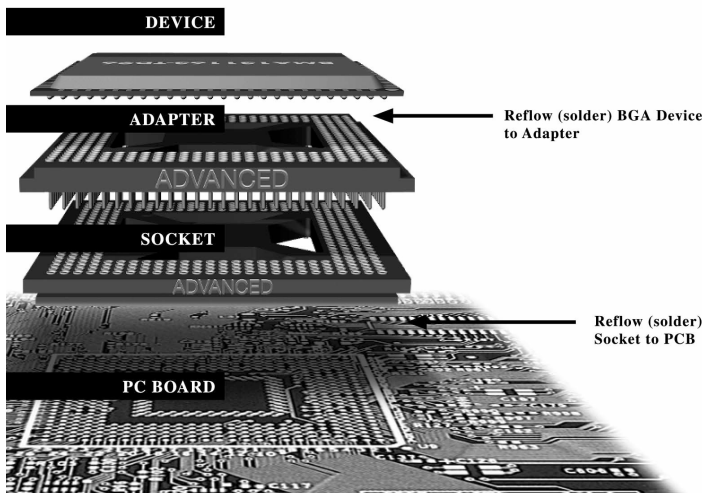
SMT (Surface Mount)

Thru-Hole

Tin/Lead: Type -636 Lead-free: Type -819	Tin/Lead: Type -790 Lead-free: Type -788	Tin/Lead: Type -702 Lead-free: Type -828	Tin/Lead: Type -758 Lead-free: Type -830
1.27mm pitch PATENTED	1.00mm pitch PATENTED	0.80mm pitch PATENTED	0.75mm pitch PATENTED
Type -673 1.27mm pitch PATENTED	Type -789 1.00mm pitch PATENTED	Type -731 0.80mm pitch PATENTED	

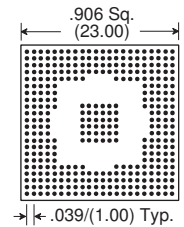


How It Works



Footprints:

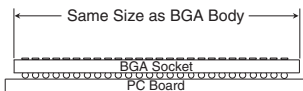
360 Pins
Footprint Number 360-2



22 x 22 rows

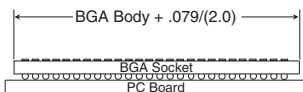
- Full grid molded insulators populated to exact device pattern
- Over 900 footprints available - search online or request BGA Footprints Booklet
- Use our Build-A-Part feature or search in our online BGA Socket Finder™ at www.bgasockets.com

Dimensional Information



Standard Socket (S)

- Mates with Standard Adapter (A)
- Socket size same as BGA device body
- Use with SMT Adapter for LGA and reworked BGA device socketing



Extraction Socket (SB)

- Mates with Extraction Slot Adapter (AX)
- Socket size equals BGA body + .079/(2.00)
- Protects valuable PCB during device/adapter extraction - tool never touches PCB
- Available in 1.00 and 1.27mm pitch only

Available Online:

- RoHS Qualification Test Report
- Technical articles
- Test data
- CAD drawings
- BGA Footprints



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