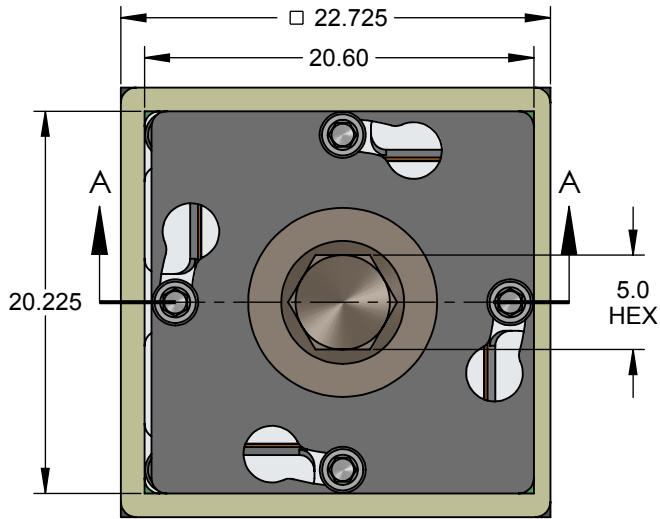


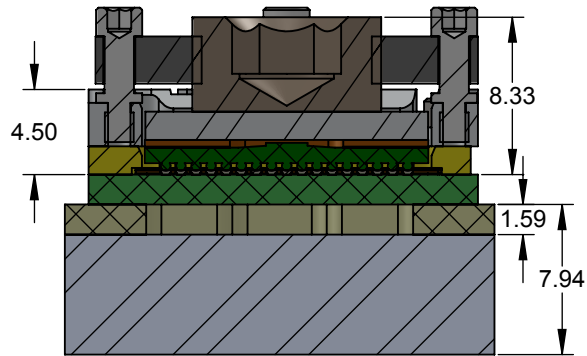
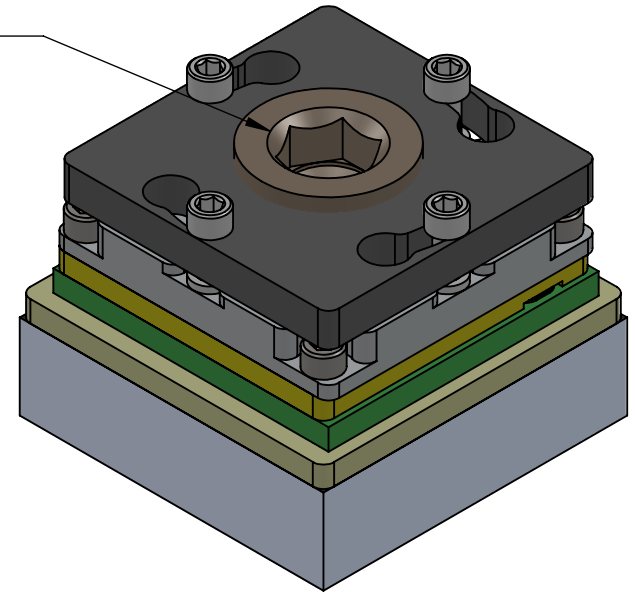
GTL-BGA DIRECT MOUNT, SOLDERLESS SOCKET

Features

- Direct mounts to target PCB with hardware.
- High speed, reliable connection
- Minimum real estate required
- Easily removal by swivel socket lid
- Wide temperature range (-55C to +160C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies




REQUIRED TORQUE:
2.30 IN-LBF, 23.5 IN-OZF, 16.5 N-CM
RECOMMENDED TORQUE DRIVER:
TL-TORQUEDRIVER-01



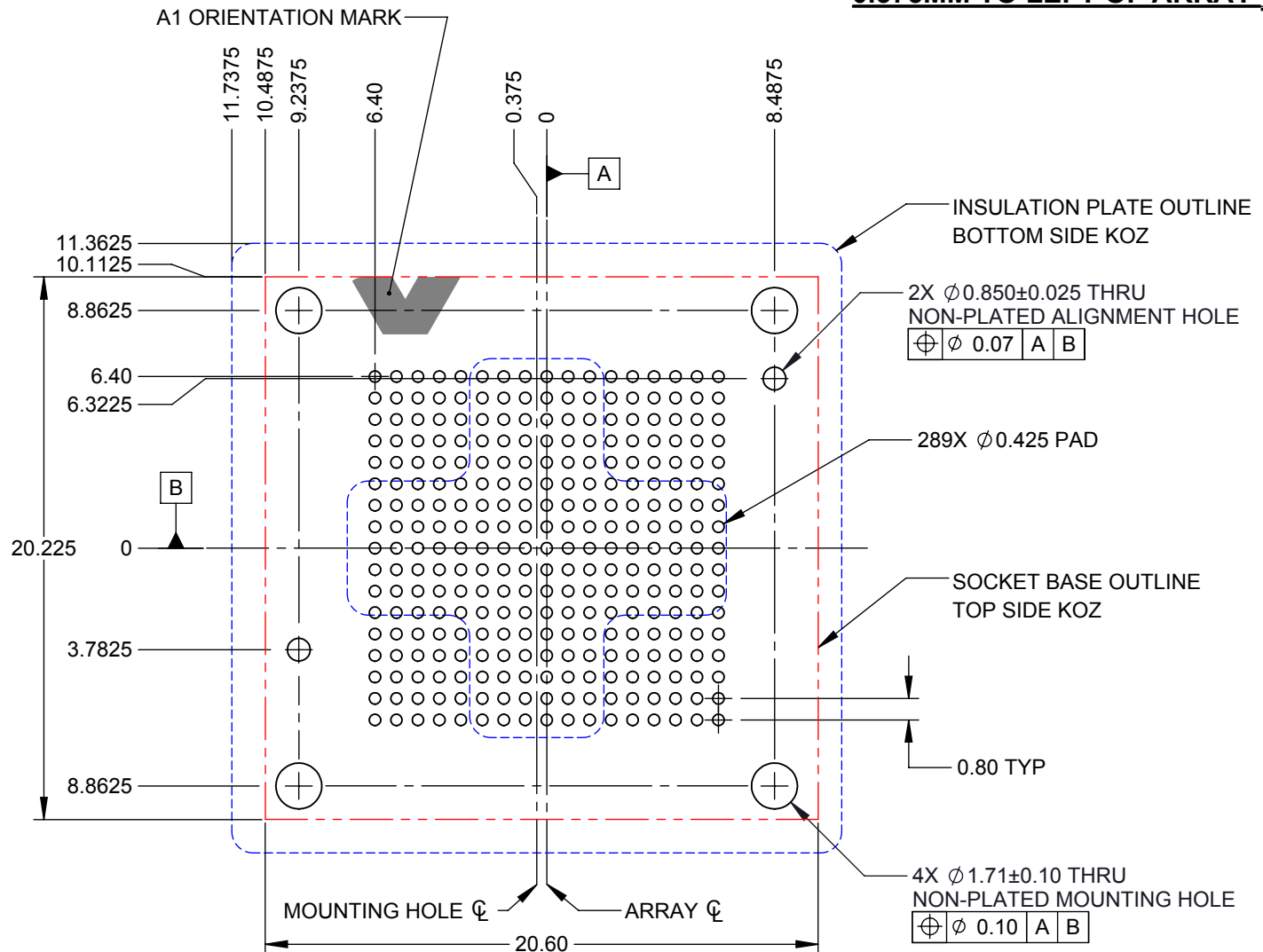
SECTION A-A

Description: GTL-BGA289, 15x15mm, 17x17 Array, 0.80mm Pitch, IC Frame

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.0254\text{mm}$ [$\pm 0.001"$],
substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$]
unless stated otherwise. Materials and specifications are subject to change without notice.

 GT-BGA-2073 Drawing ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.14	STATUS: Engineering Approval Pending	SHEET: 1 OF 4	REV. -.01
		ENG: A. Nord	DRAWN BY: M. Raske	SCALE: 2.5:1
		FILE: GT-BGA-2073 Dwg	DATE: 4/18/2018	

NOTE: MOUNTING HOLE ϕ IS OFFSET 0.375MM TO LEFT OF ARRAY ϕ .



TARGET PCB RECOMMENDATIONS

RECOMMENDATION LINK: [CLICK HERE](#)


TOTAL THICKNESS: 1.60MM MIN

PLATING: GOLD OR SOLDER FINISH

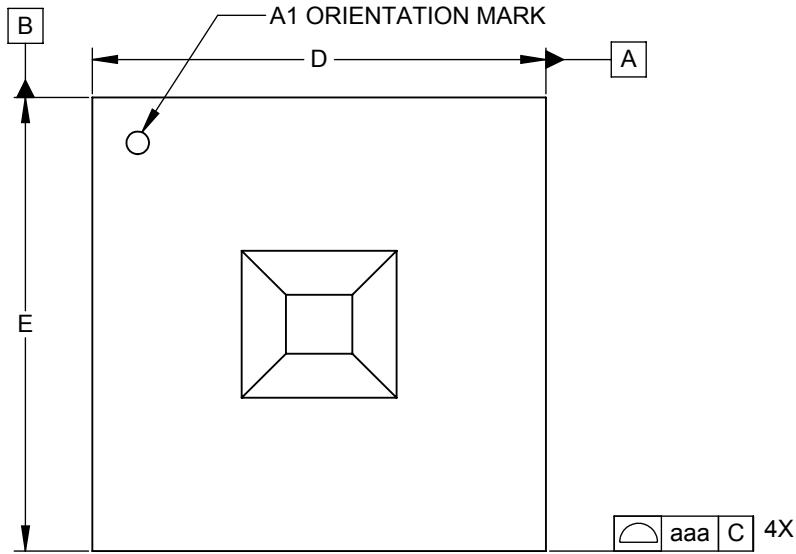
PAD HEIGHT: SAME OR HIGHER THAN SOLDER MASK

Description: Recommended PCB layout

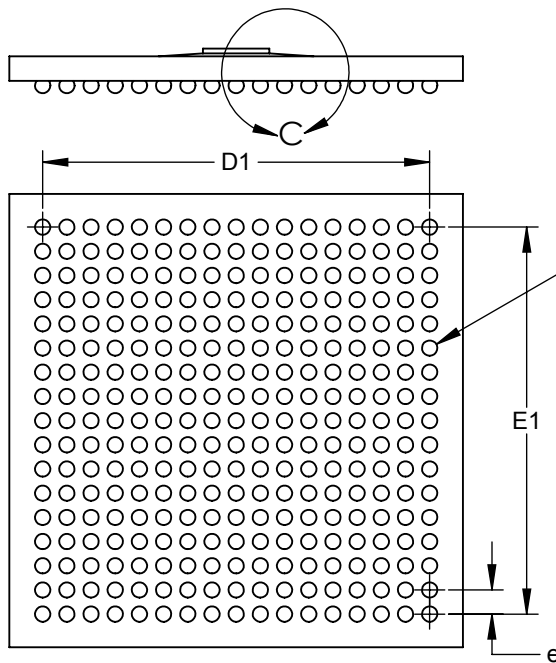
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "], Pitches (from true position) $\pm 0.0254\text{mm}$ [± 0.001 "],
substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "]
unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>GT-BGA-2073 Drawing ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 18.14</p>	STATUS: Engineering Approval Pending	SHEET: 2 OF 4	REV. -.01
		ENG: A. Nord	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: GT-BGA-2073 Dwg	DATE: 4/18/2018	

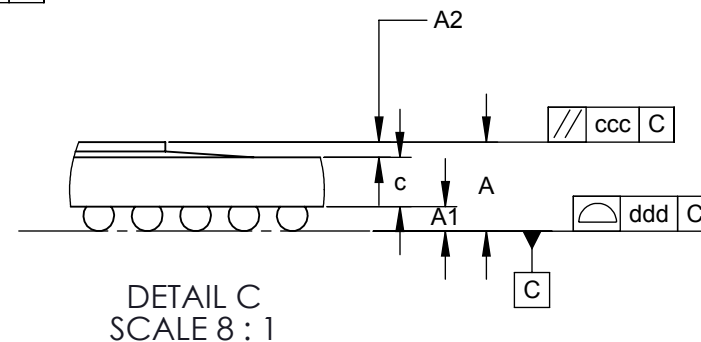
Ironwood package code: BGA289D



SYM	MIN	NOM	MAX
A	1.355	1.477	1.600
A1	0.350	0.400	0.450
A2	0.213	0.263	0.313
c	0.714	0.814	0.914
D/E	14.90	15.00	15.10
D1/E1	---	12.80	---
e	---	0.80	---
b	0.46	0.51	0.56
aaa	0.15		
ccc	0.20		
ddd	0.15		
eee	0.15		
fff	0.08		




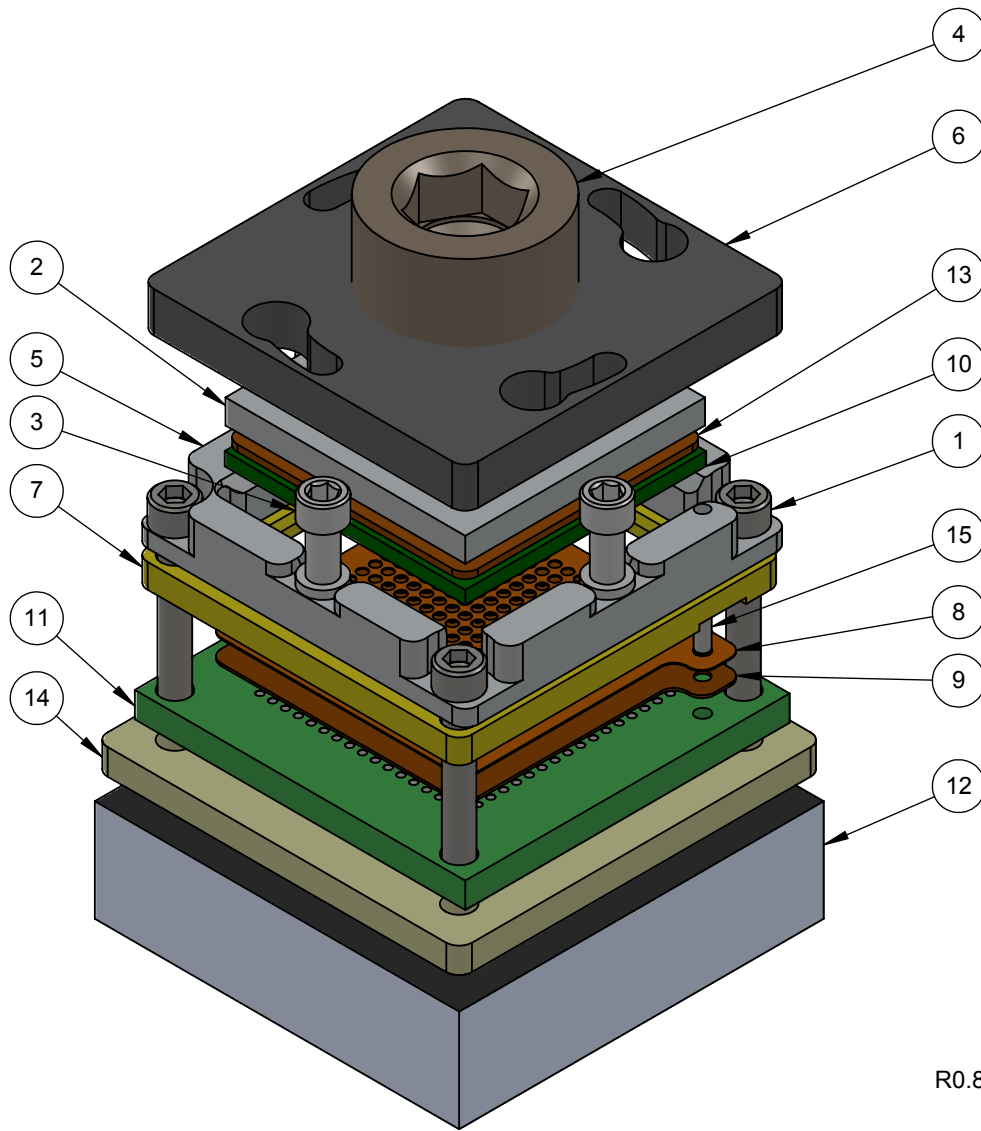
ϕ eee (M)	C	A	B
ϕ fff (M)	C		



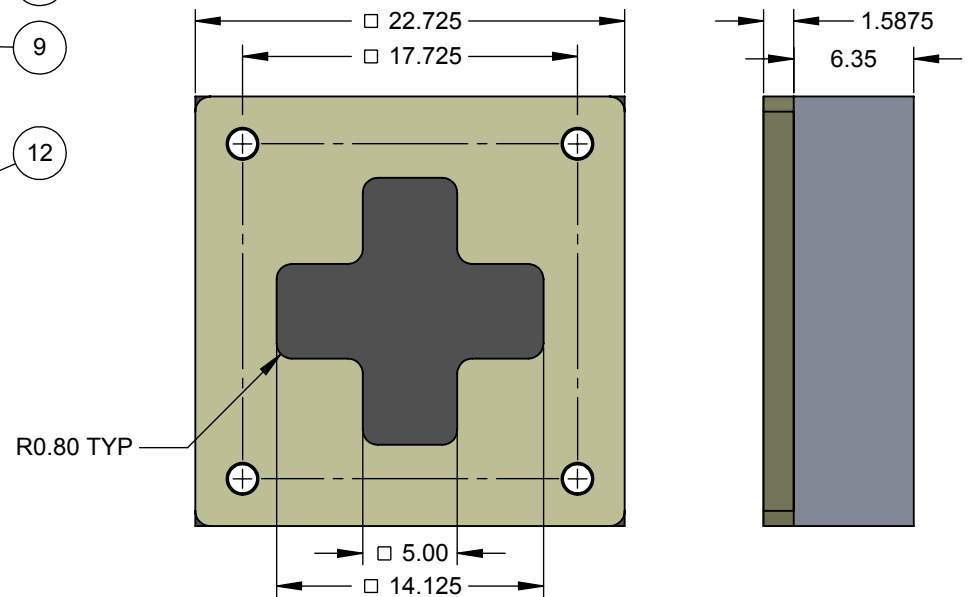
Description: Compatible Device

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "], Pitches (from true position) $\pm 0.0254\text{mm}$ [± 0.001 "],
 substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "]
 unless stated otherwise. Materials and specifications are subject to change without notice.

 GT-BGA-2073 Drawing ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.14	STATUS: Engineering Approval Pending	SHEET: 3 OF 4	REV. -.01
		ENG: A. Nord	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: GT-BGA-2073 Dwg	DATE: 4/18/2018	




ITEM NO.	DESCRIPTION	Material
1	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
2	Compression Plate 14.95 x 1.5mm	7075-T6 Aluminum Alloy
3	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
4	Compression Screw M10	7075-T6 Aluminum Alloy
5	Socket Base 15mm IC 3mm thick 0.375mm shifting	7075-T6 Alumium Alloy
6	Socket Lid 15mm	7075-T6 Aluminum Alloy
7	GT IC Guide 15x15mm	Torlon 4203
8	Ball Guide, 15x15mm, 17x17 Array, 0.80mm Pitch	Kapton Polyimide/Cirlex
9	GTL, 15x15mm, 17x17 Array, 0.80mm Pitch	N/A
10	Test Chip, 15x15mm, 17x17 Array, 0.80mm Pitch, BGA289	FR4
11	Target PCB BGA289 17x17array 15mmx15mm 0.8mm pitch	FR4 High temp
12	Backing Plate 15mm GHZ	7075-T6 Aluminum Alloy
13	IC Frame, 15x15mm IC, 6x6mm Opening	Kapton Polyimide/Cirlex
14	Custom insulation plate 15mm	FR4 Standard
15	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel



Description: Socket Assembly, Misc Detail

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "], Pitches (from true position) $\pm 0.0254\text{mm}$ [± 0.001 "],
 substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "]
 unless stated otherwise. Materials and specifications are subject to change without notice.

 ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	GT-BGA-2073 Drawing Material: N/A Finish: N/A Weight: 18.14	STATUS: Engineering Approval Pending	SHEET: 4 OF 4	REV. -.01
		ENG: A. Nord	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: GT-BGA-2073 Dwg	DATE: 4/18/2018	