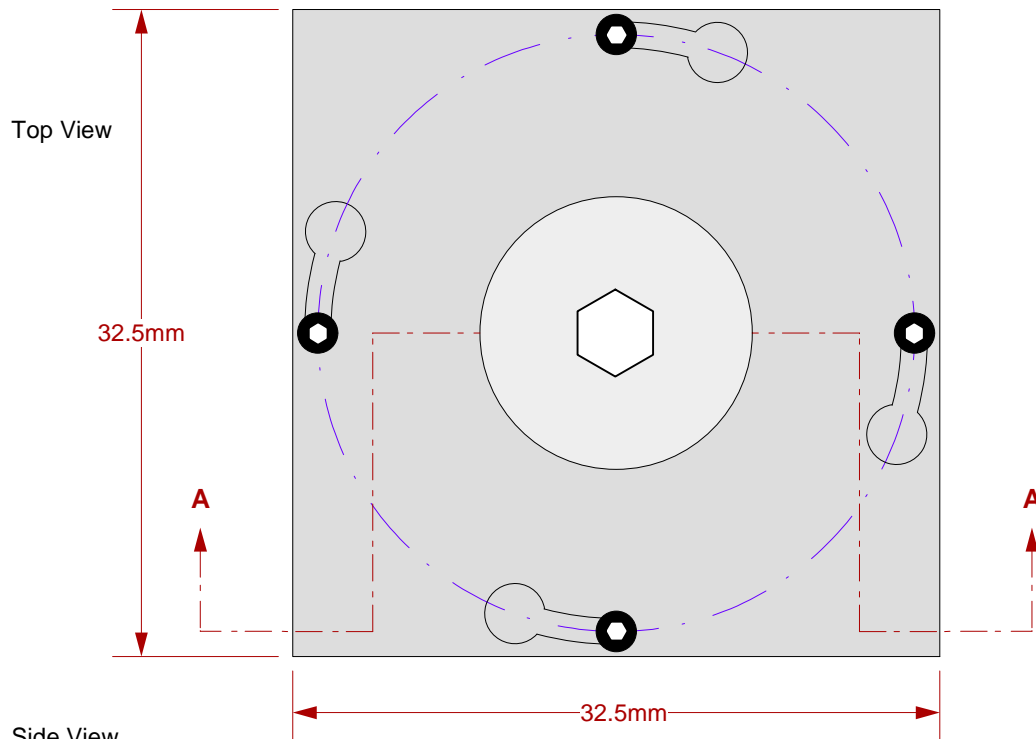
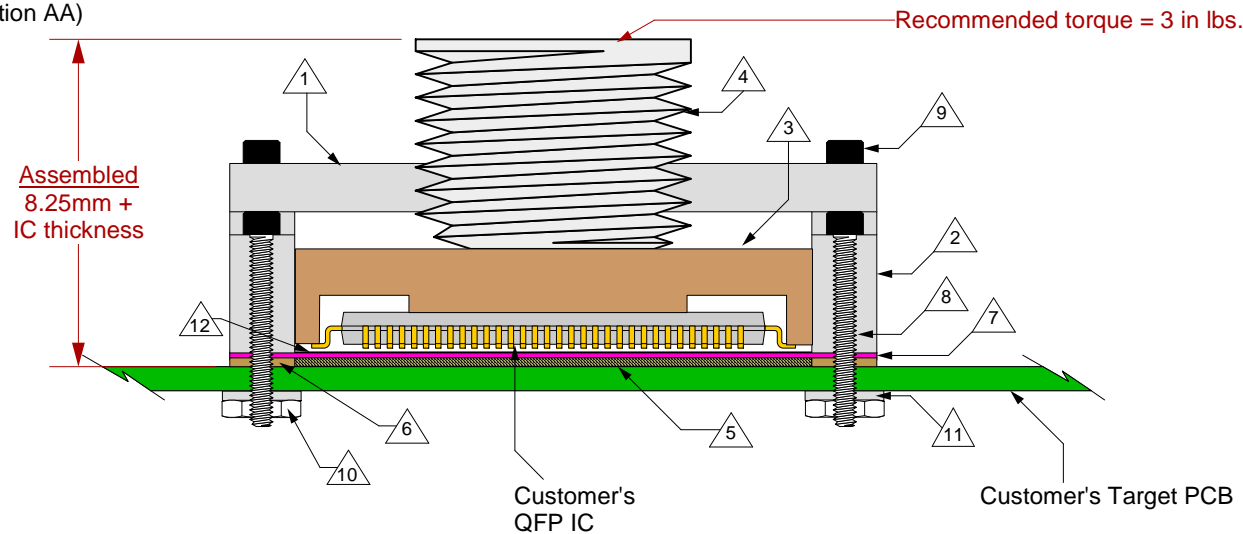


# GHz QFP176 Socket - Direct mount, solderless




Side View (Section AA)



## Features

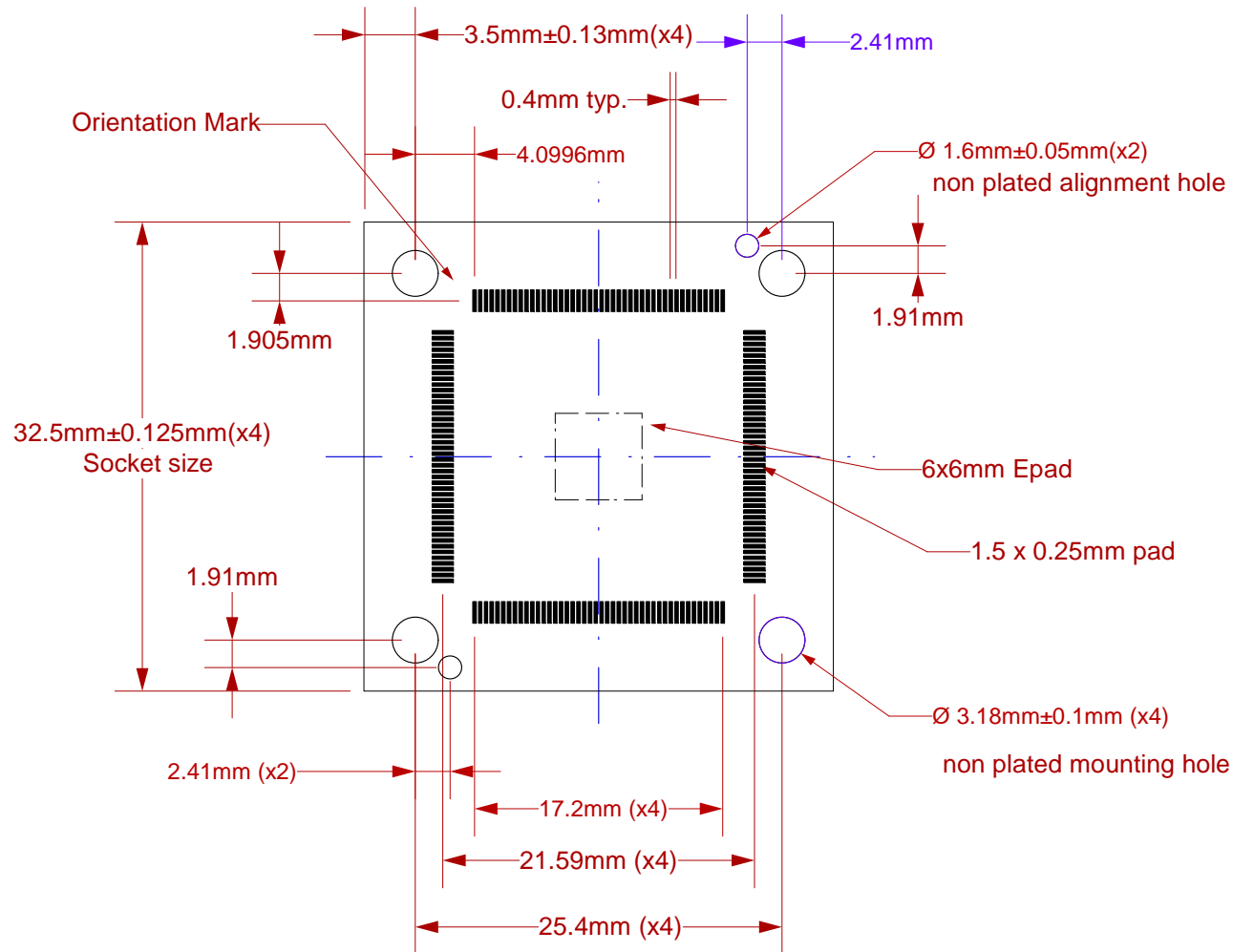
- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable swivel socket lid

- △ 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- △ 3 Compression Plate: Ultem 1000
- △ 4 Compression screw: Clear anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- △ 5 Elastomer: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.5mm.
- △ 6 Elastomer Guide: Non-clad FR4. Thickness = 0.475mm.
- △ 7 IC Guide: Ultem 1000
- △ 8 Socket base screw: Socket head cap, alloy steel with black oxide finish, 4-40 fine thread, 9.525mm long.
- △ 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 10 Socket base nut: 18-8 Stainless steel, 4-40 fine thread.
- △ 11 Nylon washer: 3.04mm ID, 7.112mm OD, 0.6-0.96mm thickness.
- △ 12 Lead Guide: Kapton Polyamide 0.003" thick

	<b>SG-QFE-7003 Drawing</b>	Status: Released	Scale: -	Rev: C
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Ste 400 Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: A. Evans		Date: 6/18/08
		File: SG-QFE-7003 Dwg	Modified: 5/7/10	

All tolerances:  $\pm 0.125\text{mm}$  (unless stated otherwise). Materials and specifications are subject to change without notice.

Recommended PCB Layout  
Top View



Target PCB Recommendations


Total thickness: 1.6mm min.

Plating: Gold or Solder finish

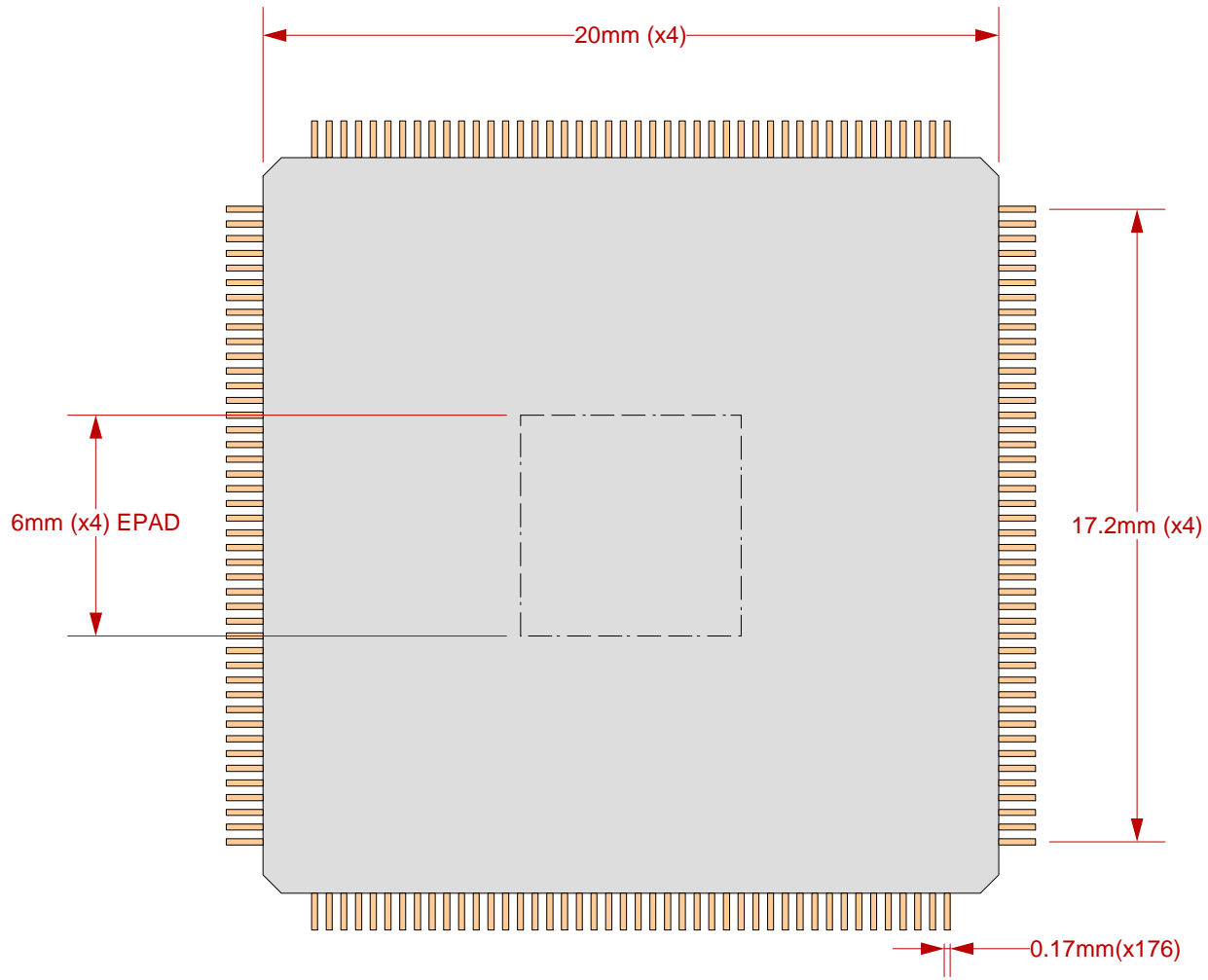
PCB Pad height: Same or higher than solder mask

NOTE: backing plate may be required based on end user's application

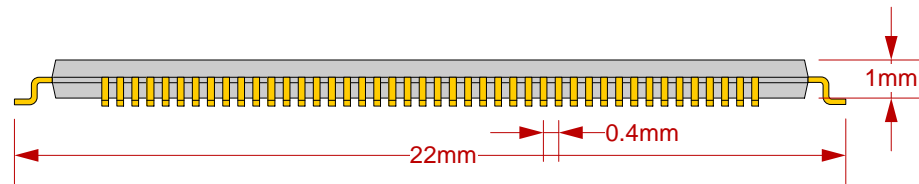
Recommended PCB Layout Tolerances:  $\pm 0.025\text{mm}$  [ $\pm 0.001"$ ] unless stated otherwise.

	<b>SG-QFE-7003 Drawing</b>	Status: Released	Scale: 2:1	Rev: C
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Ste 400 Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: A. Evans		Date: 6/18/08
		File: SG-QFE-7003 Dwg	Modified: 5/7/10	

TOP VIEW  
(Reference Only)



Side View



Ironwood Package codes accommodated

Pkg. Code	Pins	Pitch	Body Size	Tip to tip	foot length
QFE176SC	176	0.4mm	20mm x 20mm	22mm x 22mm	0.55mm

SG-QFE-7003 Drawing

Status: Released

Scale: -

Rev: C



© 2009 IRONWOOD ELECTRONICS, INC.  
11351 Rupp Dr. Ste 400 Burnsville, MN 55337  
Tele: (952) 229-8200  
www.ironwoodelectronics.com

Drawing: A. Evans

Date: 6/18/08

File: SG-QFE-7003 Dwg

Modified: 5/7/10