

Features

- For GPS L3/4 applications
- Usable bandwidth of 38 MHz
- Single-ended operation
- Ceramic Surface Mount Package
- Hermetic



Package

Surface Mount 3.26 x 1.60 x 0.84 mm



Dimensions shown are nominal in millimeters All tolerances are ± 0.13 mm except overall length and width ± 0.25 mm

Overall width, length, and thickness are the only critical dimensions. All other dimensions are for reference only. Body: Sapphire Lid: Alumina Terminations: Au plating 0.5 - 2.5µm, over a 2.0 – 6.0 µm Ni plating **Pin Configuration**

Bottom View



Pin No.	Description		
I/O	Input/Output		
GND	Ground		



Electrical Specifications⁽¹⁾

Operating Temperature Range: ⁽²⁾ -40 t

-40 to +85 °C

Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
10dB Center Frequency	1375	1380	1385	MHz
Insertion Loss at Fo	-	2.75	4.0	dB
3 dB Bandwidth ⁽⁴⁾	38	40	-	MHz
40 dB Bandwidth ⁽⁴⁾	-	115	124	MHz
Amplitude Variation ⁽⁴⁾				
1370 - 1390 MHz	-	1	2	dB
Input/Output VSWR at Fo	-	1.5	2.25:1	_
Source Impedance	-	50	-	Ω
Load Impedance	_	50	-	Ω

Notes:

- 1. All specifications are based on the test circuit shown below
- 2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4. Referenced to the insertion loss at center frequency

Test Circuit:



Typical Performance (at +25°C)



S21 Amplitude Response

Subject to change or obsolescence without notice



Matching Schematics



Tape and Reel available upon request EIA-481

Tinning available per J-STD-001

ROHS compliant (no tinning) DFARS compliant

Maximum Ratings							
Parameter	Symbol	Minimum	Maximum	Unit			
Operating Temperature Range	Т	-40	+85	°C			
Storage Temperature Range	T _{stg}	-55	+100	О°			

Warnings

Electrostatic Sensitive Device (ESD)

• Avoid ultrasonic exposure

Triquint's liability is limited only to the Bulk Acoustic Wave (BAW) component(s) described in this data sheet. Triquint does not accept any liability for applications, processes, circuits or assemblies, which are implemented using any Triquint component described in this data sheet.

63140 Britta St. Bldg. C Bend, OR 97701 **Contact Information**

Phone: +1 (972) 994-8465 Fax: +1 (972) 994-8504 Email: <u>custservbend@tqs.com</u> Web: <u>www.triguint.com</u> Or contact one of our worldwide Network of <u>sales offices</u>, <u>Representatives or distributors</u>