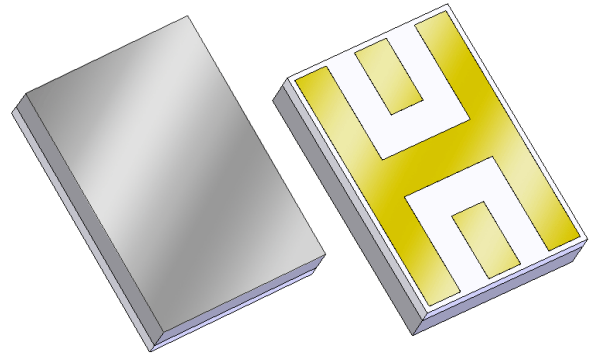


880368

1280 MHz BAW Filter

Applications

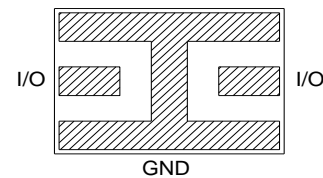
- L-Band
- For high-selectivity applications



Product Features

- Usable bandwidth 19 MHz
- Low loss
- High selectivity
- Single-ended operation
- Ceramic chip-scale Package (CSP)
- Small Size
- Hermetic **RoHS** compliant, **Pb-free**

Functional Block Diagram



Overall width, length, and thickness are the only critical dimensions. All other dimensions are for reference only.

Dimensions shown are nominal in millimeters
All tolerances are $\pm 0.13\text{mm}$ except overall length and width $\pm 0.25\text{mm}$

Body: *Sapphire*
Package: *Alumina*

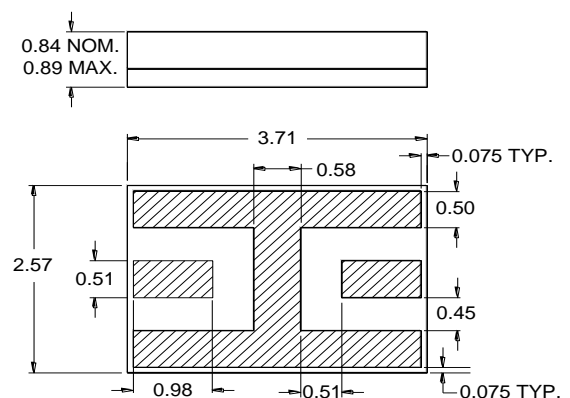
Terminations: *Au* plating 0.5 - 2.5 μm , over a 2.0 - 6.0 μm *Ni* plating

Pin Configuration

Pin #	SE-Balanced	Description
I/O		Input/Output
GND		Ground

Ordering Information

Part No.	Description
880368	packaged part
880368 Eval Board	evaluation board



Specifications

Electrical Specifications ⁽¹⁾

Specified Temperature Range: ⁽²⁾ -40 to +85 °C

Parameter ⁽³⁾	Conditions	Min	Typical ⁽⁴⁾	Max	Units
Center Frequency		-	1280	-	MHz
Maximum Insertion Loss	@ 1280 MHz	-	4.0	4.5	dB
3dB Bandwidth	Reference loss at 1280 MHz	19	23	-	MHz
40dB Lower Frequency Edge		1249	1260	-	MHz
40dB Upper Frequency Edge		-	1300	1311	MHz
VSWR	@ 1280 MHz	-	1.5	2.0	-
Source Impedance (single-ended) ⁽⁵⁾		-	50	-	Ω
Load Impedance (single-ended) ⁽⁵⁾		-	50	-	Ω

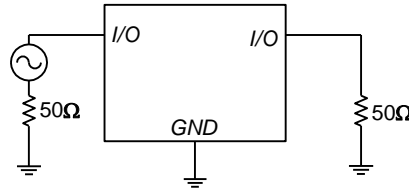
Notes:

1. All specifications are based on the TriQuint schematic for the main reference design shown on page 3
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. Typical values are based on average measurements at room temperature
5. This is the optimum impedance in order to achieve the performance shown

Reference Design

Schematic

50 Ω
Single-ended
Input

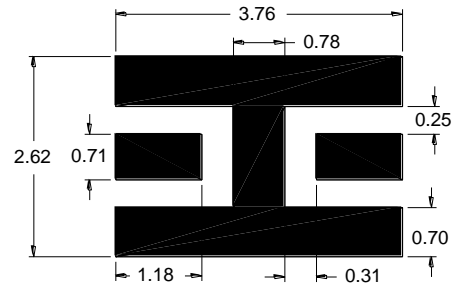


50 Ω
Single-ended
Input

PC Board

Refer to [PCB Layout](#) for more information.

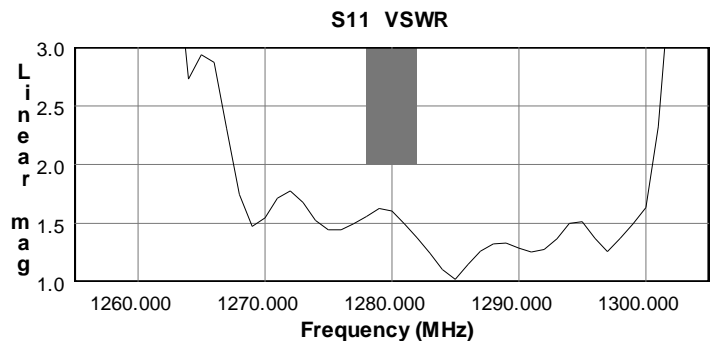
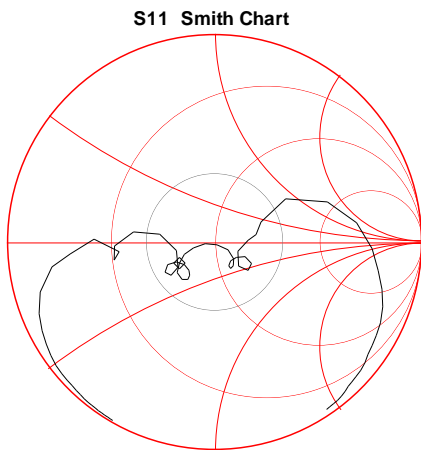
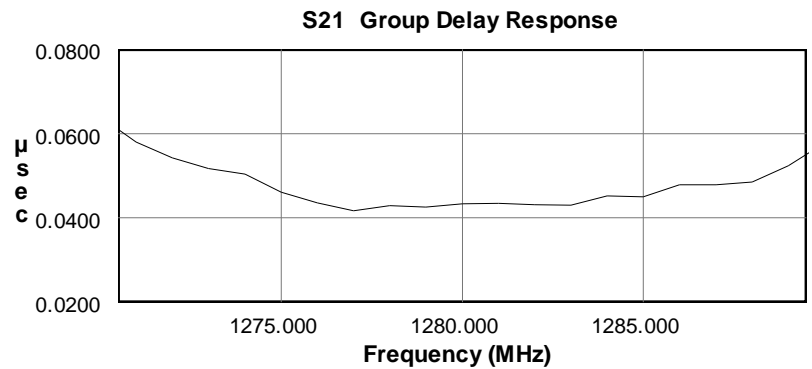
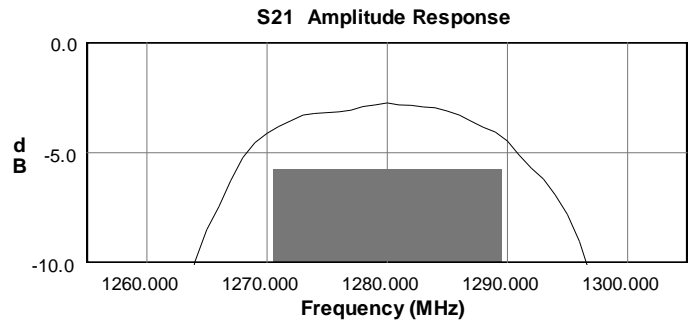
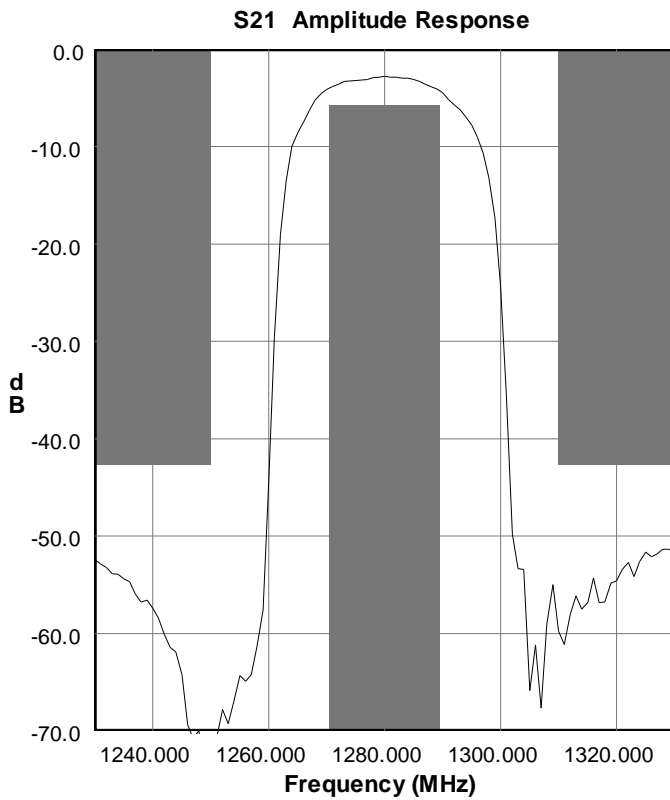
Mounting Configuration



Notes:

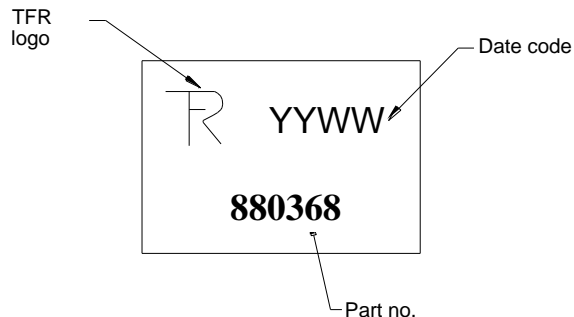
1. All dimensions are in millimeters.
2. This footprint represents a recommendation only.

Typical Performance (at room temperature)



Mechanical Information

Marking



The date code consists of: YY = last digit of year,
WW = 2 digit week

Tape and Reel Information

Tape and Reel available upon request
EIA-481

Tinning available per J-STD-001

Absolute Maximum Ratings

Parameter	Rating
Operating Temperature	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Maximum Input Power	+23 dBm

Operation of this device outside the parameter ranges given above may cause permanent damage.