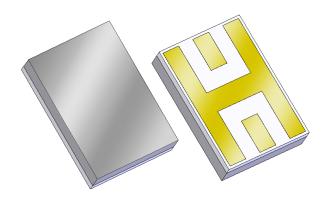


Applications

- L-Band
- For high-selectivity applications



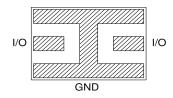
Product Features

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

Pin Configuration

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

Functional Block Diagram



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

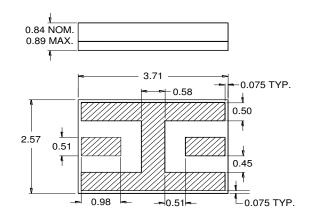
Dimensions shown are nominal in millimeters All tolerances are ± 0.13 mm except overall length and width ± 0.25 mm

Body: Sapphire
Package: Alumina
Terminations: Au plating 0.5 - 2.5μm, over a 2.0 – 6.0 μm Ni plating

Ordering Information

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

- 1 of 6 -





Specifications

Electrical Specifications (1)

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

pecifical remperature range. 10 to 105 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

- 2 of 6 -

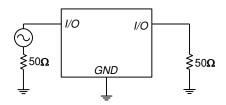
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4. Typical values are based on average measurements at room temperature
- 5. This is the optimum impedance in order to achieve the performance shown



Reference Design

Schematic



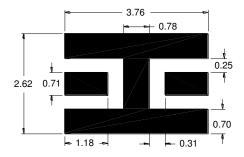


 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Input} \end{array}$

PC Board

Refer to **PCB Layout** for more information.

Mounting Configuration



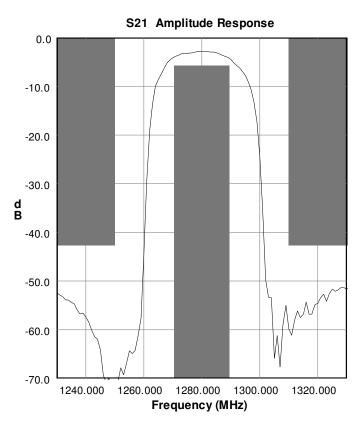
Notes:

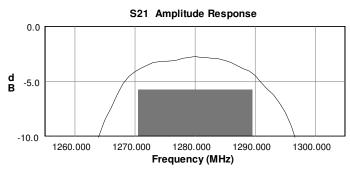
- 3 of 6 -

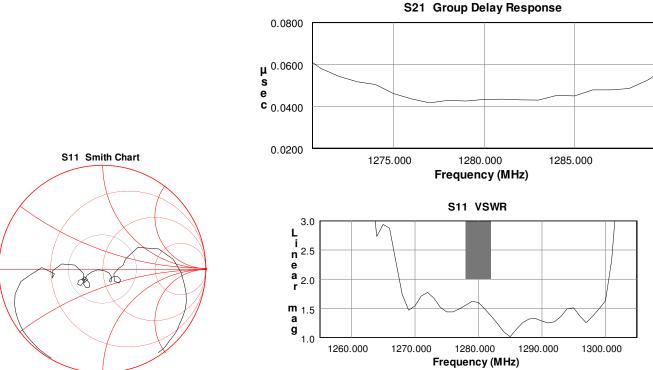
- 1. All dimensions are in millimeters.
- 2. This footprint represents a recommendation only.



Typical Performance (at room temperature)







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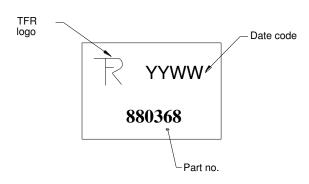
Data Sheet: Rev A 12/2011
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Mechanical Information

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

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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.



Product Compliance Information

ESD Information



Caution! ESD-Sensitive Device

Value: Passes ≥ 8000 V min.
Test: Human Body Model (HBM)
Standard: JEDEC Standard JESD22-A114

Value: Passes \geq 1600 V min. Test: Machine Model (MM)

Standard: JEDEC Standard JESD22-A115

Refer to **ESD Sensitivity** for data

Solderability

Compatible with the latest version of J-STD-020, lead free solder, 260°C

Refer to **Soldering Profile** for recommended guidelines.

This part is compliant with EU 2002/95/EC RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment).

This product also has the following attributes:

- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A $(C_{15}H_{12}Br_4O_2)$ Free
- PFOS Free
- SVHC Free

Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations, and information about TriQuint:

Web: <u>www.triquint.com</u> Tel: +1.407.886.8860 Email: <u>info-sales@tgs.com</u> Fax: +1.407.886.7061

For technical questions and application information:

Email: info-defense@tqs.com

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