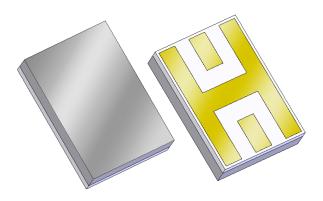


### **Applications**

- S-Band
- For high-selectivity applications



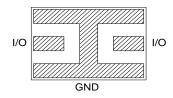
#### Product Features

- Usable bandwidth 30 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.

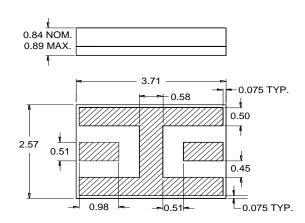
Dimensions shown are nominal in millimeters All tolerances are  $\pm 0.13$ mm except overall length and width  $\pm 0.25$ mm

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
880157	packaged part
880157 Eval Board	evaluation board

- 1 of 6 -





### **Specifications**

# **Electrical Specifications** (1)

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

pecifical reinperature Range. 40 to 105 C					
Parameter (3)	Conditions	Min	Typical <sup>(4)</sup>	Max	Units
Center Frequency		-	2560	-	MHz
Maximum Insertion Loss	@ 2560 MHz	-	3.8	4.5	dB
3dB Bandwidth	Reference loss at 2560 MHz	30	38	-	MHz
40dB Lower Frequency Edge		2505	2525	-	MHz
40dB Upper Frequency Edge		-	2595	2610	MHz
VSWR	@ 2560 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 -

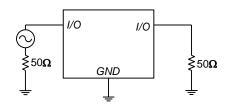
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4. Typical values are based on average measurements at room temperature
- 5. This is the optimum impedance in order to achieve the performance shown



#### Reference Design

#### **Schematic**



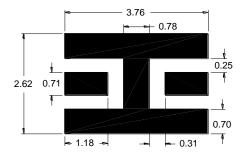


 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Input} \end{array}$ 

#### **PC Board**

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

### **Mounting Configuration**



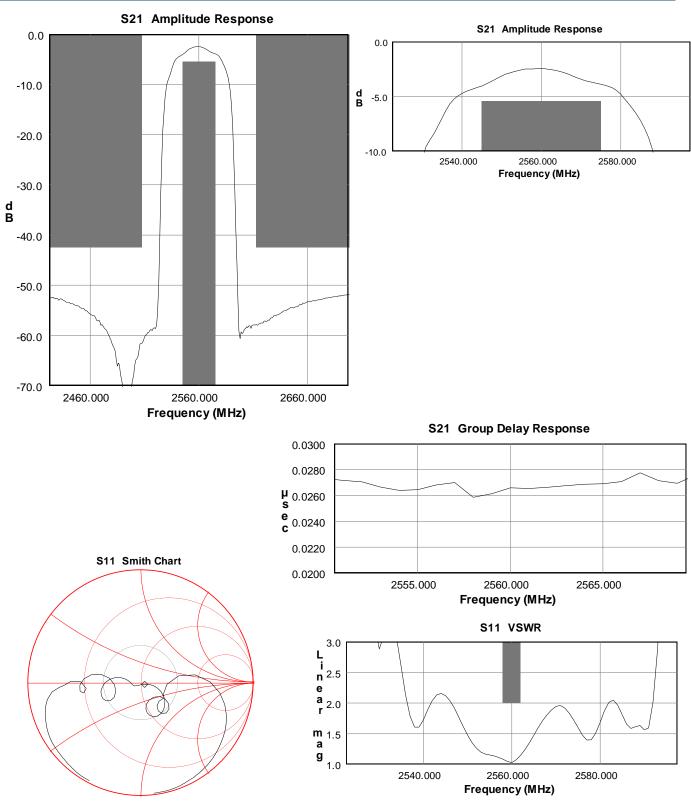
#### Notes:

- 3 of 6 -

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



#### Typical Performance (at room temperature)

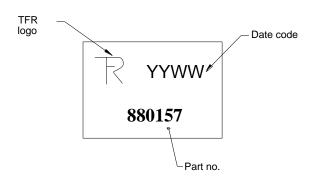


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#### **Mechanical Information**

#### 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

- 5 of 6 -

### **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 ≥ 4000 V min.
Test: Human Body Model (HBM)
Standard: JEDEC Standard JESD22-A114

Value: Passes  $\geq 200 \text{ V min.}$ 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,  $260^{\circ}\text{C}$ 

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:

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Email: info-defense@tqs.com

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