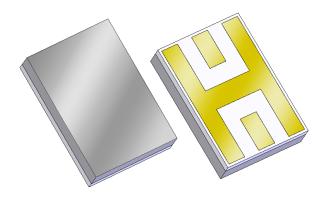


Applications

- For GPS L1 Applications
- For high-selectivity applications



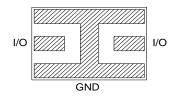
Product Features

- Usable bandwidth 25 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

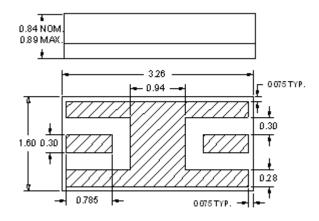
Body: *Sapphire* Package: *Alumina*

Terminations: Au plating 0.5 - 2.5 μ m, over a 2.0 – 6.0 μ m Ni plating

Ordering Information

Part No.	Description
880094	packaged part
880094 Eval Board	evaluation board

- 1 of 6 -





Specifications

Electrical Specifications (1)

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

Parameter (3)	Conditions	Min	Typical ⁽⁴⁾	Max	Units
Center Frequency		-	1575.42	-	MHz
Maximum Insertion Loss	@ 1575.42 MHz	-	1.8	2.5	dB
3dB Bandwidth	Reference loss at 1575.42 MHz	30	35	-	MHz
20dB Lower Frequency Edge		1543.42	1548	-	MHz
20dB Upper Frequency Edge		-	1602	1607.42	MHz
VSWR	@ 1575.42 MHz	-	1.6	2.0	-
Source Impedance (single-ended)		-	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 -

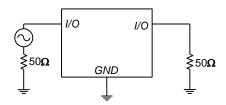
- 3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4. Typical values are based on average measurements at room temperature
- 5. This is the optimum impedance in order to achieve the performance shown



Reference Design

Schematic



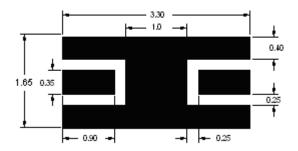


 $\begin{array}{c} 50~\Omega\\ \text{Single-ended}\\ \text{Input} \end{array}$

PC Board

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

Mounting Configuration



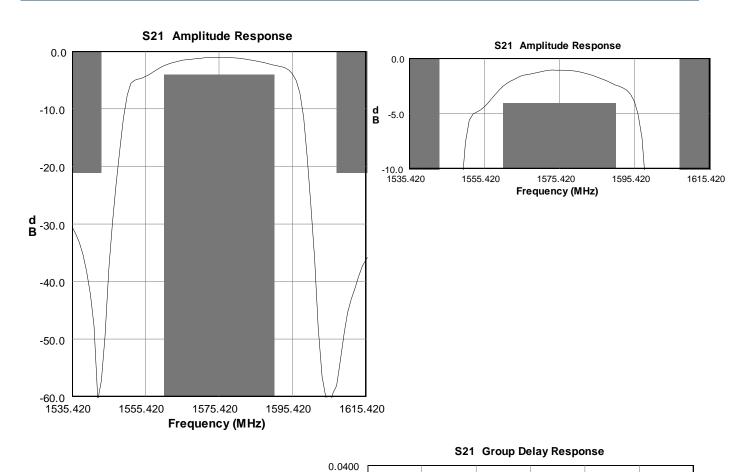
Notes:

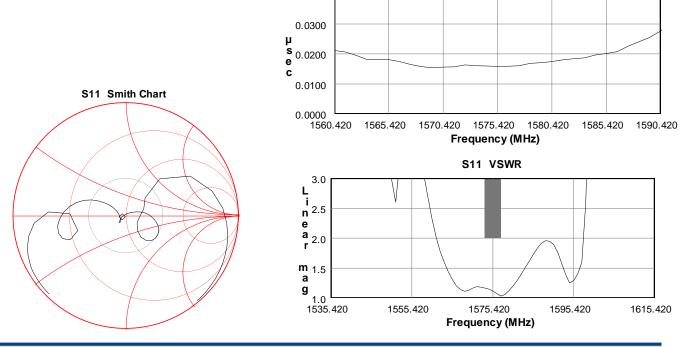
- 3 of 6 -

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



Typical Performance (at room temperature)





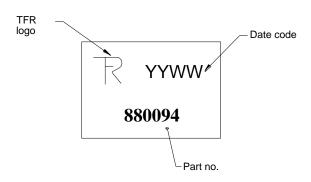
Data Sheet: Rev B 12/2011 © 2011 TriQuint Semiconductor, Inc. - 4 of 6 - Disclaimer: Subject to change without notice

Connecting the Digital World to the Global Network



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	$-40 \text{ to } +85 ^{\circ}\text{C}$
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

Passes $\geq 8000 \text{ V min.}$ Value: Test: Human Body Model (HBM) JEDEC Standard JESD22-A114 Standard:

Value: Passes $\geq 1600 \text{ V min.}$ 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°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:

+1.407.886.8860 Web: www.triquint.com Tel: Email: info-sales@tqs.com Fax: +1.407.886.7061

For technical questions and application information:

Email: info-defense@tqs.com

Important Notice

The information contained herein is believed to be reliable. TriQuint makes no warranties regarding the information contain herein. TriQuint assumes no responsibility or liability whatsoever for any of the information contained herein. TriQuint assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for TriQuint products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

TriQuint products are not warranted or authorized for use as critical components in medical, life-saving, or life-sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Data Sheet: Rev B 12/2011 © 2011 TriQuint Semiconductor, Inc. Disclaimer: Subject to change without notice

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Development Tools category:

Click to view products by Qorvo manufacturer:

Other Similar products are found below:

MAAM-011117 MAAP-015036-DIEEV2 EV1HMC1113LP5 EV1HMC6146BLC5A EV1HMC637ALP5 EVAL-ADG919EBZ ADL5363EVALZ LMV228SDEVAL SKYA21001-EVB SMP1331-085-EVB EV1HMC618ALP3 EVAL01-HMC1041LC4 MAAL-011111-000SMB
MAAM-009633-001SMB MASW-000936-001SMB 107712-HMC369LP3 107780-HMC322ALP4 SP000416870 EV1HMC470ALP3
EV1HMC520ALC4 EV1HMC244AG16 MAX2614EVKIT# 124694-HMC742ALP5 SC20ASATEA-8GB-STD MAX2837EVKIT+
MAX2612EVKIT# MAX2692EVKIT# EV1HMC629ALP4E SKY12343-364LF-EVB 108703-HMC452QS16G EV1HMC863ALC4
EV1HMC427ALP3E 119197-HMC658LP2 EV1HMC647ALP6 ADL5725-EVALZ MAX2371EVKIT# 106815-HMC441LM1
EV1HMC1018ALP4 UXN14M9PE MAX2016EVKIT EV1HMC939ALP4 MAX2410EVKIT MAX2204EVKIT+ EV1HMC8073LP3D
SIMSA868-DKL SIMSA868C-DKL SKY65806-636EK1 SKY68020-11EK1 SKY67159-396EK1 SKY66181-11-EK1