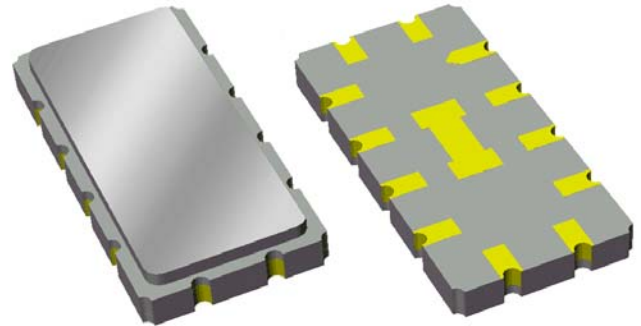


Data Sheet

Features

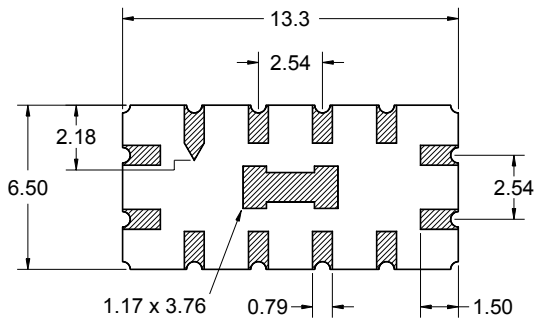
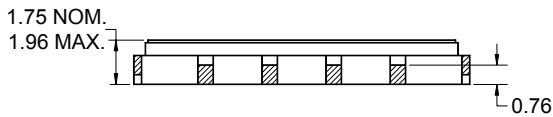
- Usable bandwidth of 5.0 MHz
- Typical 3 dB bandwidth of 5.35 MHz
- Low loss
- High attenuation
- Single-ended operation, 50Ω
- Ceramic Surface Mount Package (SMP)
- Hermetic



Package Pin Configuration

Surface Mount 13.30 x 6.50 x 1.75 mm

Bottom View



Pin No.	Description
5	Output
11	Input
6,12	Ground
1,2,3,4	Case Ground
7,8,9,10	Case Ground

Dimensions shown are nominal in millimeters
 All tolerances are ±0.15mm except overall
 length and width ±0.10mm

Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 0.5 - 1.0μm,
 over a 2 - 6μm Ni plating

Data Sheet

Electrical Specifications ⁽¹⁾

Operating Temperature: ⁽²⁾ +25 °C

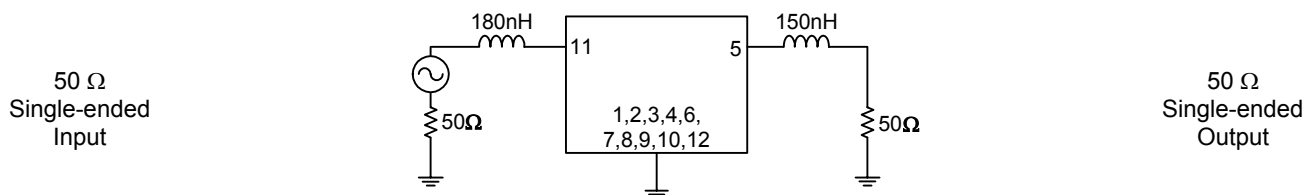
Parameter	Minimum	Typical	Maximum	Unit
Center Frequency	69.8	70	70.2	MHz
Insertion Loss at F _o	-	7.25	8	dB
1 dB Bandwidth	4.35	4.45	-	MHz
3 dB Bandwidth	5	5.35	-	MHz
40 dB Bandwidth	-	9.35	10.25	MHz
Passband Ripple 68 - 72 MHz	-	0.6	1	dB
Phase Linearity 68 - 72 MHz	-	8	9.5	deg
Group Delay Variation 68 - 72 MHz	-	90	125	nsec
Absolute Delay	-	0.96	-	μsec
Temperature Coefficient	-	-94	-	ppm/°C
Source Impedance ⁽³⁾	-	50	-	Ω
Load Impedance ⁽³⁾	-	50	-	Ω

Notes:

1. All specifications are based on the test circuit shown below
2. All specifications are tested at room temperature only
3. This is the optimum impedance in order to achieve the performance shown

Test Circuit:

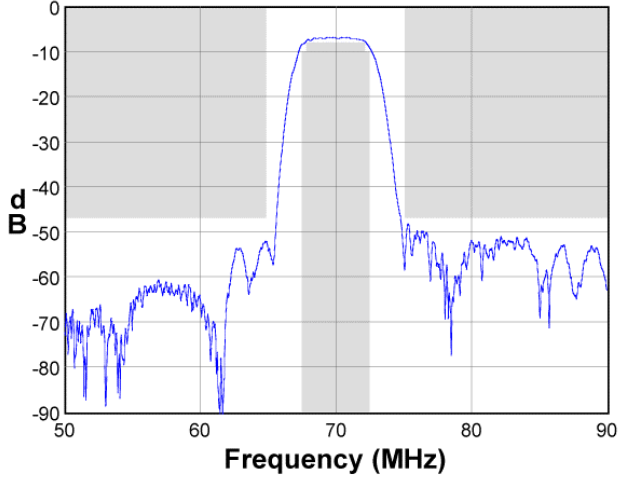
Actual matching values may vary due to PCB layout and parasitics



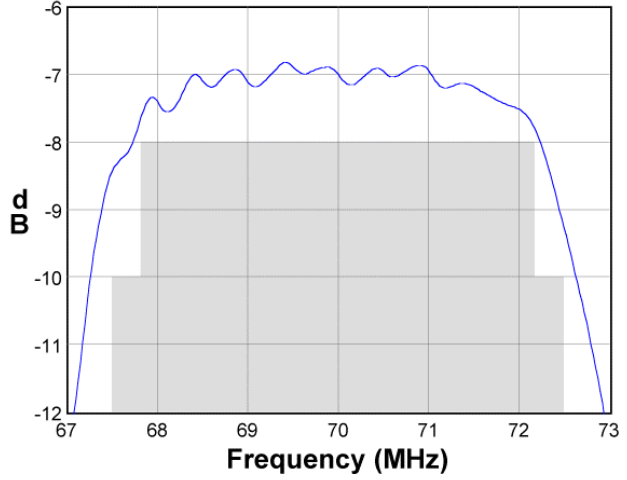
Data Sheet

Typical Performance (at +25°C)

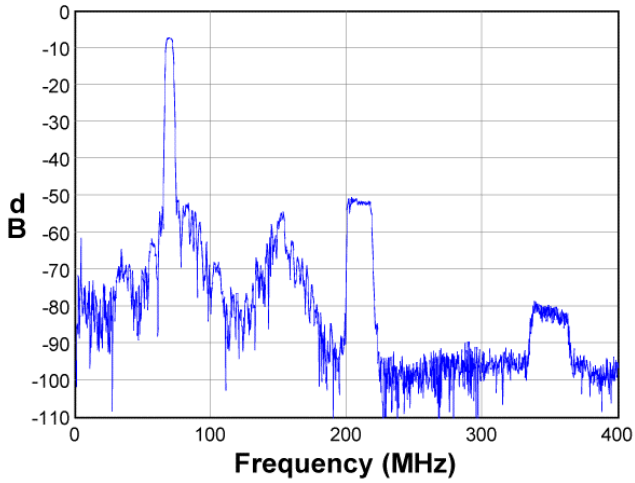
Frequency Response



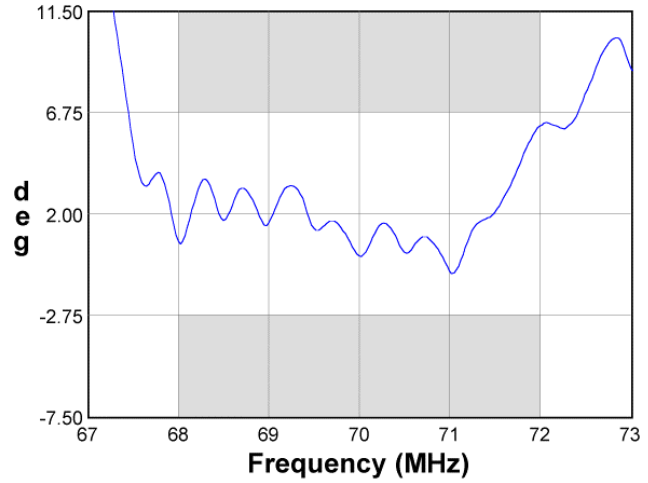
Passband Response



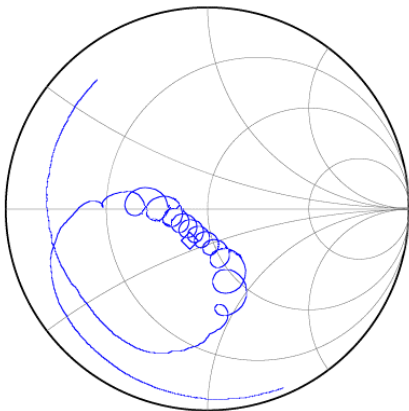
Wide Response



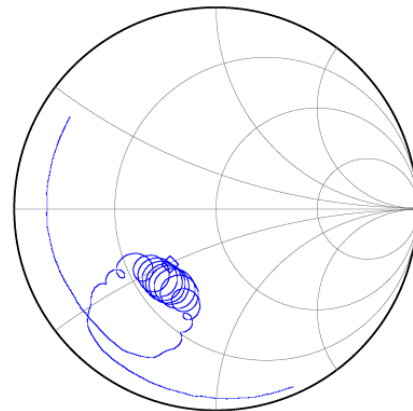
Phase Linearity



Input Smith Chart



Output Smith Chart



Data Sheet

Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Unit
Storage Temperature Range	T _{stg}	-40	+85	° C

Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure



Material Content

- Does not contain lead (Pb) or other RoHS restricted materials

Links to Additional Technical Information

[PCB Layout Tips](#)

[Qualification Flowchart](#)

[Soldering Profile](#)

[S-Parameters](#)

[Other Technical Information](#)

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

Contact Information



PO Box 609501
Orlando, FL 32860-9501
USA

Phone: +1 (407) 886-8860
Fax: +1 (407) 886-7061
Email: custservice@sawtek.com
Web: www.sawtek.com

Or contact one of our worldwide
Network of [sales offices](#),
[Representatives or distributors](#)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Qorvo:](#)

[854660](#) [854660-EVB](#)