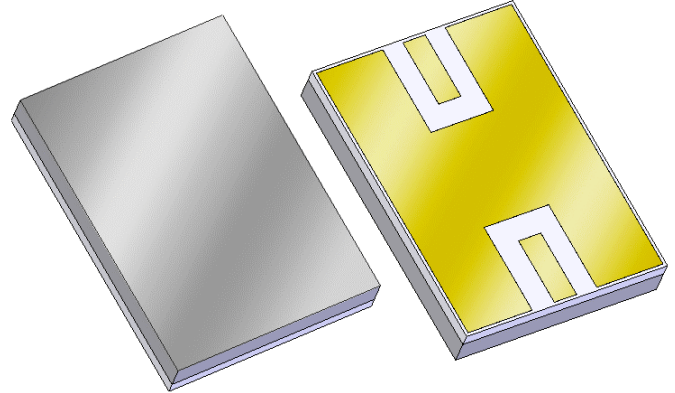


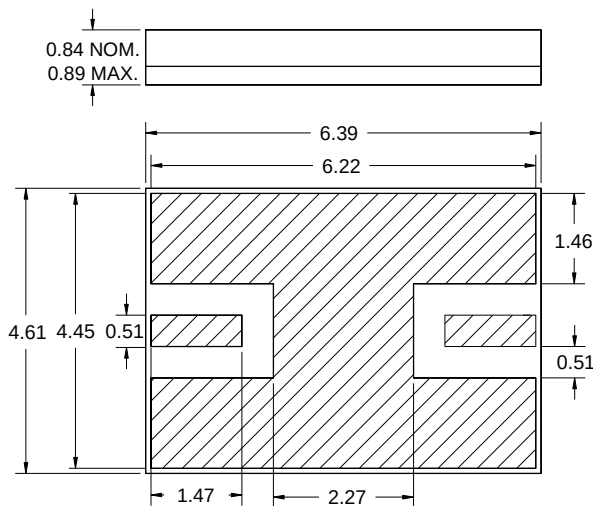
Features

- ISM Applications
- Usable bandwidth of 13 MHz
- Single-ended operation
- Ceramic Surface Mount Package
- Hermetic



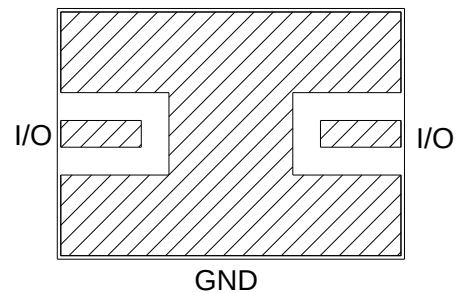
Package

Surface Mount 6.39 x 4.61 x 0.84 mm



Pin Configuration

Bottom View



Pin No.	Description
I/O	Input/Output
GND	Ground

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

Electrical Specifications ⁽¹⁾

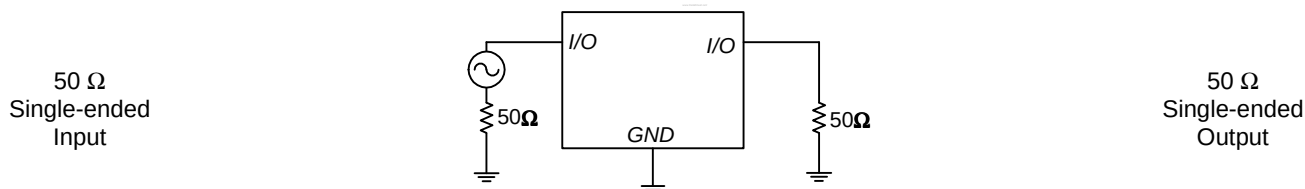
Operating Temperature Range: ⁽²⁾ -40 to +85 °C

Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
Center Frequency	910	915	920	MHz
Insertion Loss @ Fo	-	3	4.5	dB
3 dB Bandwidth ⁽⁴⁾	13	18	-	MHz
40 dB Lower Frequency Edge	892.5	-	-	MHz
40 dB Upper Frequency Edge	-	-	937.5	MHz
VSWR @ Fo	-	1.8	2:1	
Source Impedance	-	50	-	Ω
Load Impedance	-	50	-	Ω

Notes:

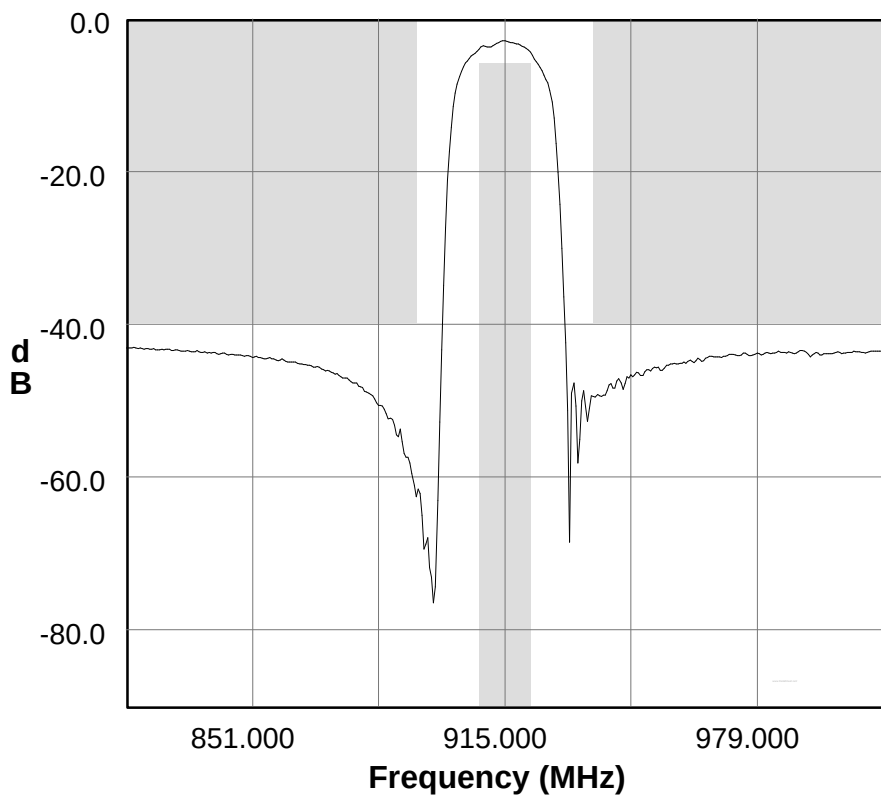
1. All specifications are based on the test circuit shown below
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. Referenced to the insertion loss at center frequency

Test Circuit:

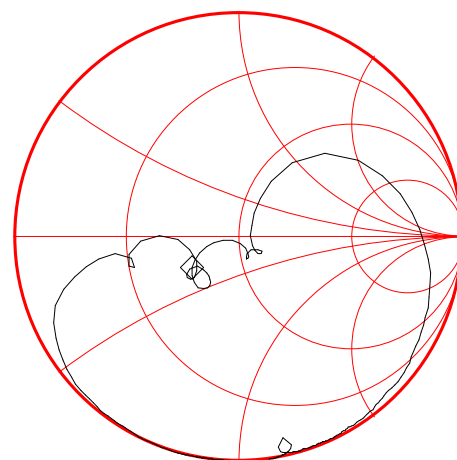


Typical Performance (at +25°C)

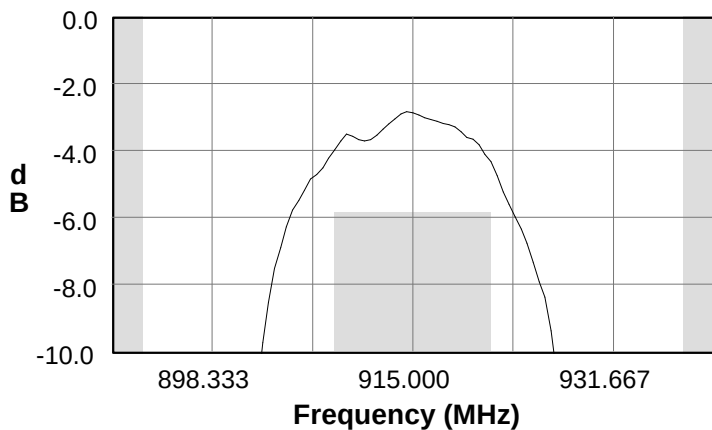
S21 Amplitude Response



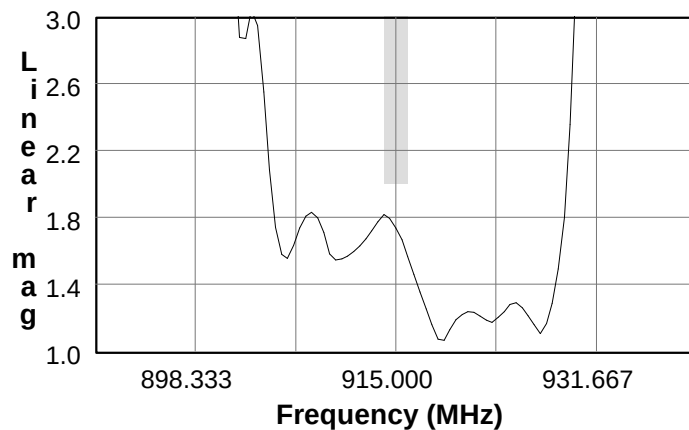
S11 Smith Chart



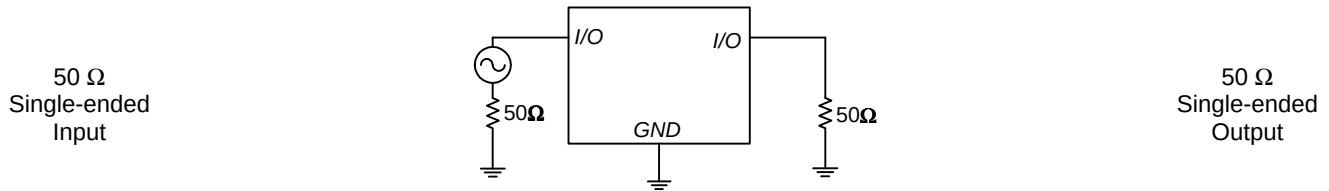
S21 Amplitude Response



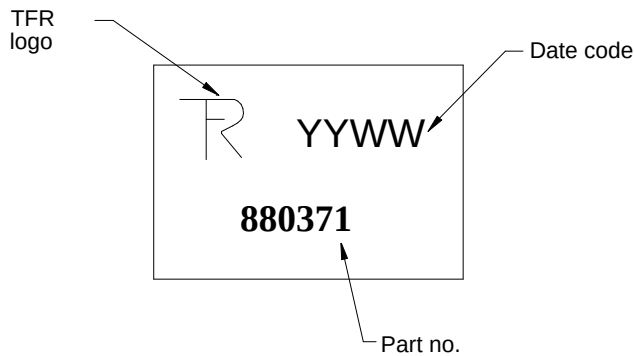
S11 VSWR



Matching Schematics

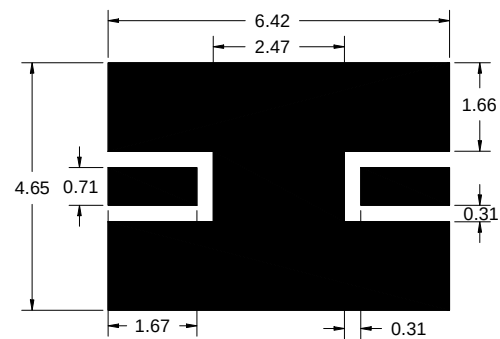


Marking



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

PCB Footprint



This footprint represents a recommendation only
Dimensions shown are nominal in millimeters

Tape and Reel

Tape and Reel available upon request
EIA-481

Tinning available per J-STD-001

ROHS compliant (no tinning)
DFARS compliant

Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Unit
Operating Temperature Range	T	-40	+85	°C
Storage Temperature Range	T _{stg}	-55	+100	°C

Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure



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 Bulk Acoustic Wave (BAW) 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.

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