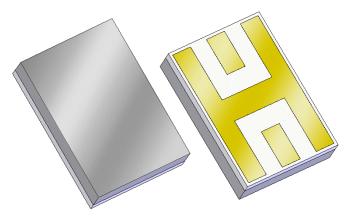


Data Sheet



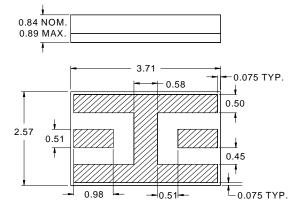
Features

- For GPS applications
- Usable bandwidth of 20 MHz
- Single-ended operation
- Ceramic Surface Mount Package
- This part number is a replacement for part number SMR-1575-45
- Hermetic



Package

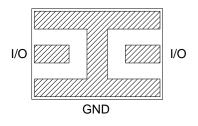
Surface Mount 3.71 x 2.57 x 0.84 mm



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 Pin Configuration Bottom View



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

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Electrical Specifications⁽¹⁾

Operating Temperature Range: ⁽²⁾

-40 to +85 °C

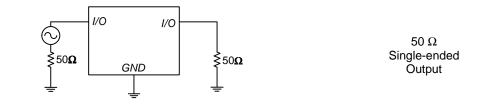
Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
Center Frequency	-	1575.42	-	MHz
Insertion Loss at Fo	-	-	4.0	dB
Lower 3 dB Center Frequency ⁽⁴⁾	1572.42	-		MHz
Upper 3 dB Center Frequency ⁽⁴⁾	-	-	1578.42	MHz
3 dB Bandwidth ⁽⁴⁾	20	-	28	MHz
40 dB Bandwidth ⁽⁴⁾	-	-	60	MHz
Source Impedance	-	50	-	Ω
Load Impedance	-	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

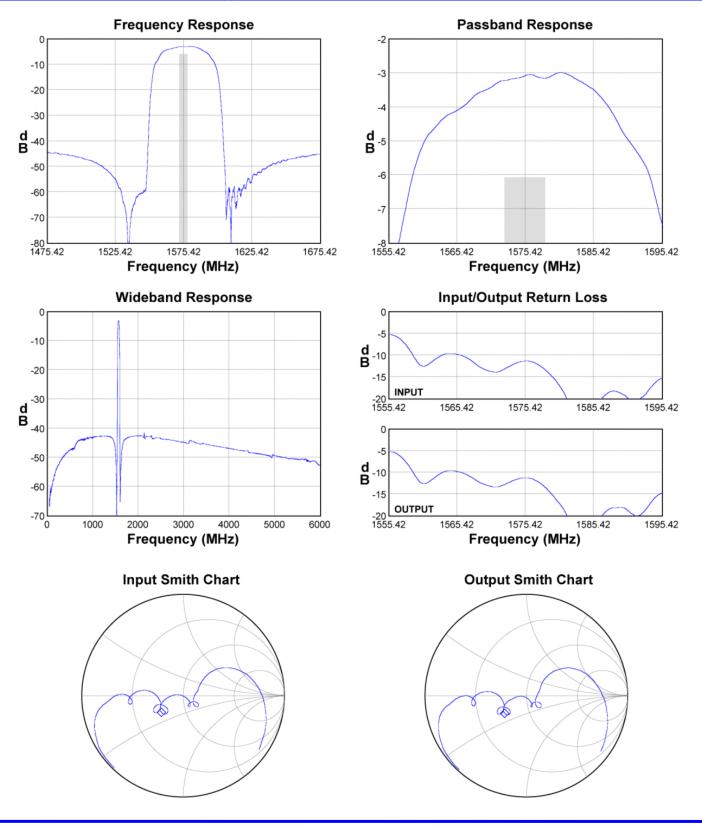
Test Circuit:

50 Ω Single-ended Input





Typical Performance (at +25°C)

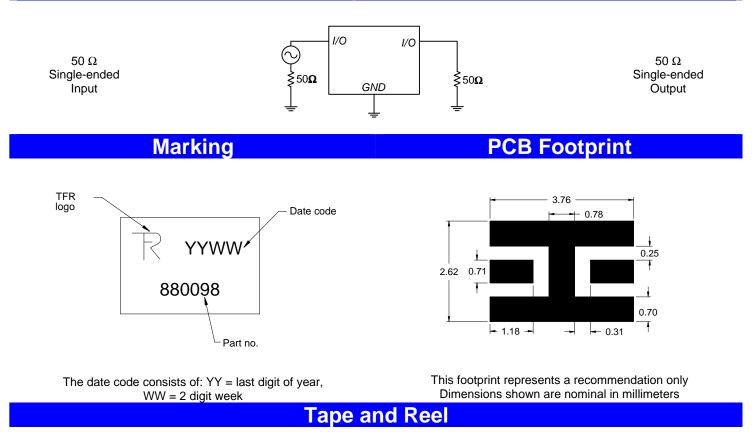


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Rev - Jan-2007



Matching Schematics



Tape and Reel available upon request EIA-481

Tinning available per J-STD-001

ROHS compliant (no tinning) DFARS compliant



Data Sheet

Maximum Ratings							
Parameter	Symbol	Minimum	Maximum	Unit			
Operating Temperature Range	Т	-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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