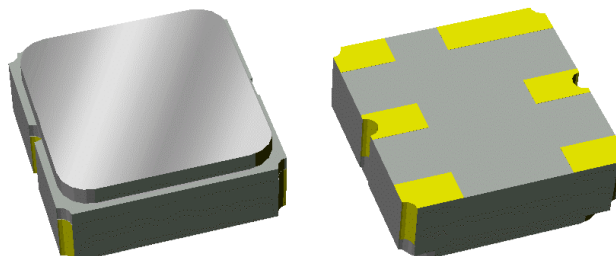


Data Sheet

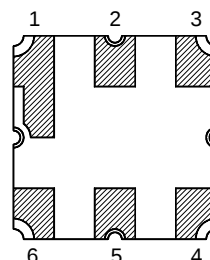
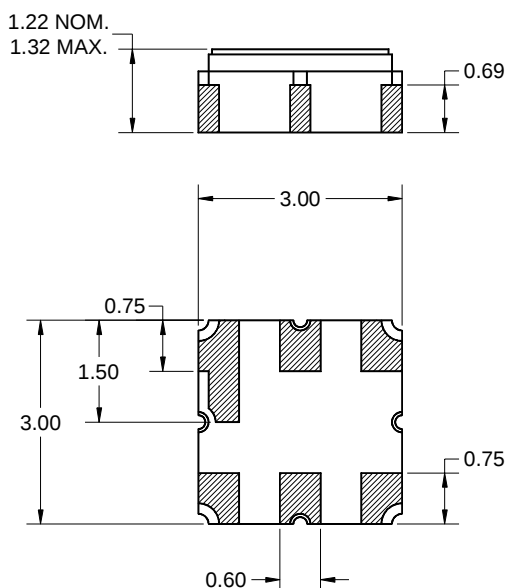
Features

- For EGSM applications
- Usable bandwidth 35 MHz
- Low loss
- No impedance matching required for operation at 50 Ω
- Single-ended operation
- Ceramic Surface Mount Package (SMP)
- Small size



Package

Surface Mount 3.0 x 3.0 x 1.22 mm



Pin No.	Description
2,5	Input/Output
1,3,4,6	Case ground

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

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

Data Sheet

Electrical Specifications ⁽¹⁾

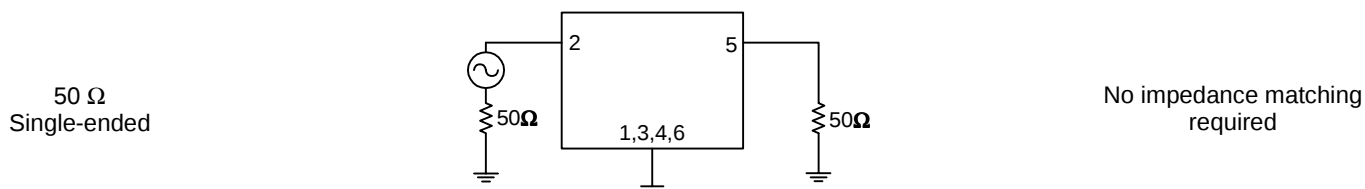
Operating Temperature Range: ⁽²⁾ -20 to +70°C

Parameter ⁽³⁾	Minimum	Typical	Maximum	Unit
Center Frequency	-	942.5	-	MHz
Insertion Loss				
925 - 960 MHz (+15 to +35 °C)	-	2	3.2	dB
925 - 960 MHz (-20 to +70 °C)	-	2.2	4	
Absolute Attenuation				
10 - 905 MHz	20	32	-	dB
905 - 915 MHz (-20 to +35 °C)	12	18	-	dB
905 - 915 MHz (+35 to +70 °C)	5	18	-	dB
980 - 2400 MHz	20	28	-	dB
2400 - 3120 MHz	10	26	-	dB
Input/Output Return Loss				
925 - 960 MHz	6	10	-	dB
Terminating Source Impedance: ⁽⁴⁾	-	50	-	Ω
Terminating Load Impedance: ⁽⁴⁾	-	50	-	Ω
Operating Temperature Range	-20	+25	+70	°C

Notes:

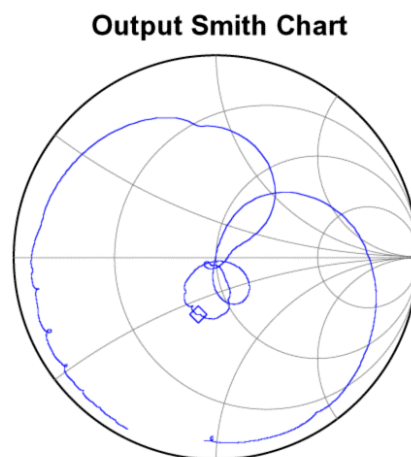
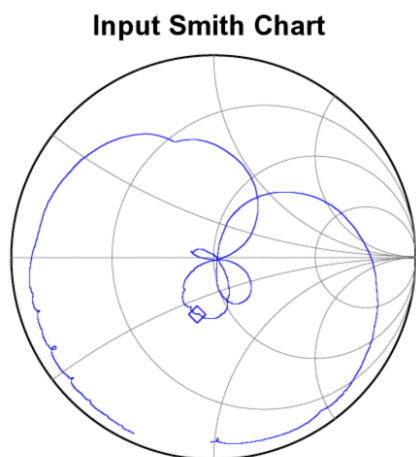
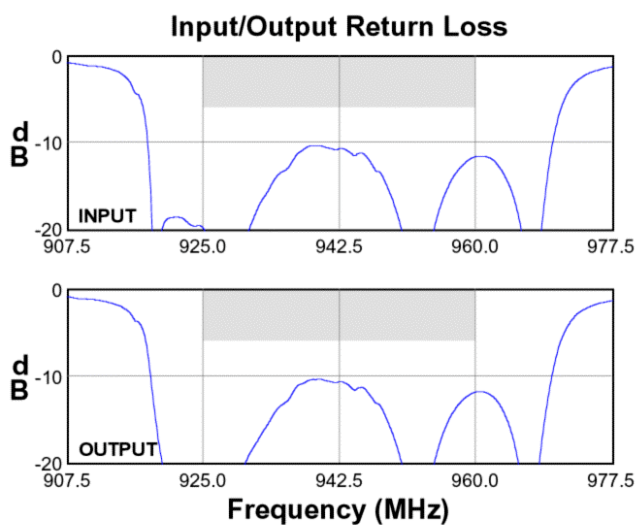
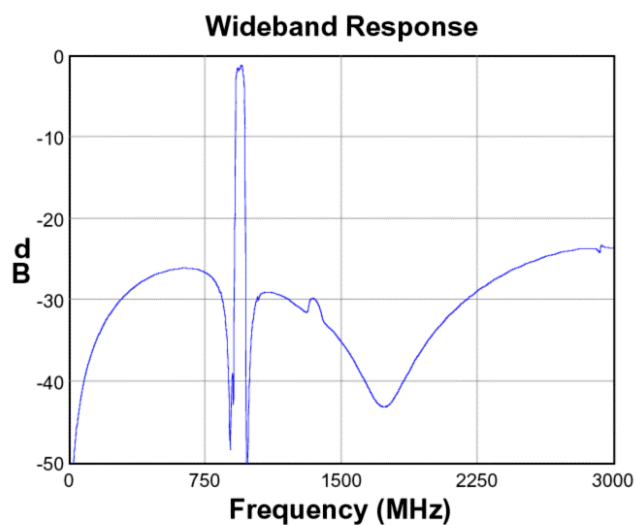
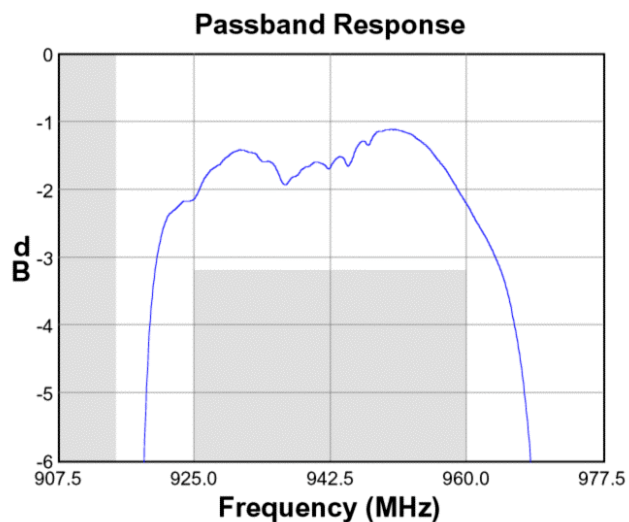
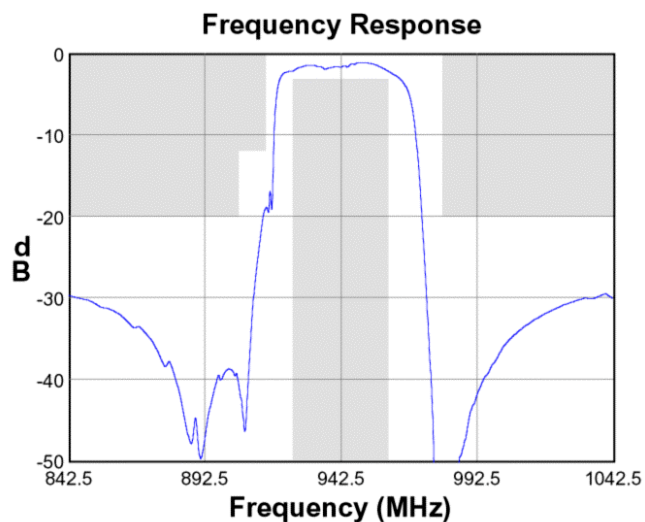
1. All specifications are based on the test circuit shown below
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance shown

Test Circuit:



Data Sheet

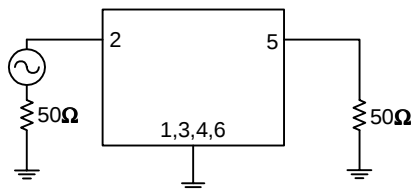
Typical Performance (at +25°C)



Data Sheet

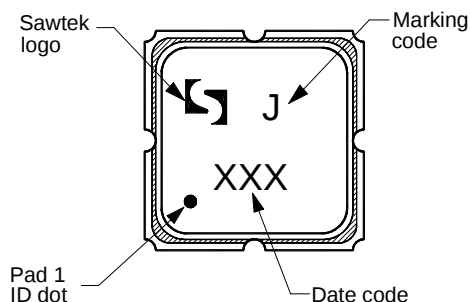
Matching Schematics

50 Ω
Single-ended



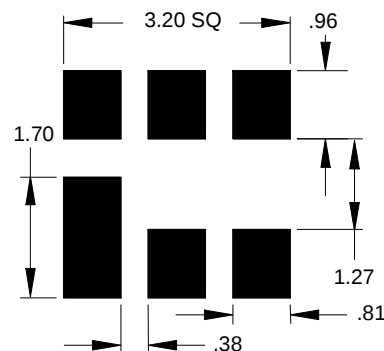
No impedance matching
required

Marking



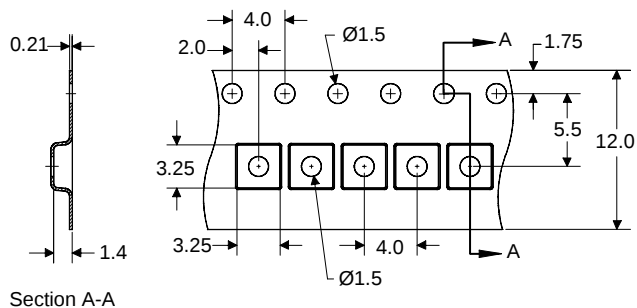
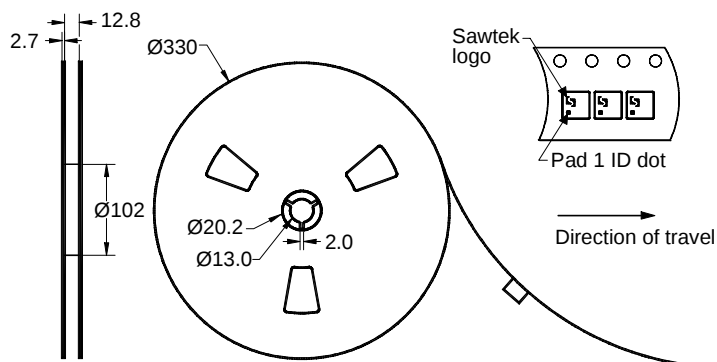
Date code is the day of the current year in 3-digit Julian format

PCB Footprint



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

Tape and Reel



Dimensions shown are nominal in millimeters
Packaging quantity: 5000 units/reel

Data Sheet

Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Unit
Operating Temperature Range	T	-20	+70	°C
Storage Temperature Range	T _{stg}	-40	+85	°C

Warnings

- Electrostatic Sensitive Device (ESD)
- Avoid ultrasonic exposure



Links to Additional Technical Information

[PCB Layout Tips](#)[Qualification Flowchart](#)[Soldering Profile](#)[S-Parameters](#)[Reel and Packaging Label](#)[Other Technical Information](#)

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Network of [sales offices](#),
[Representatives or distributors](#)