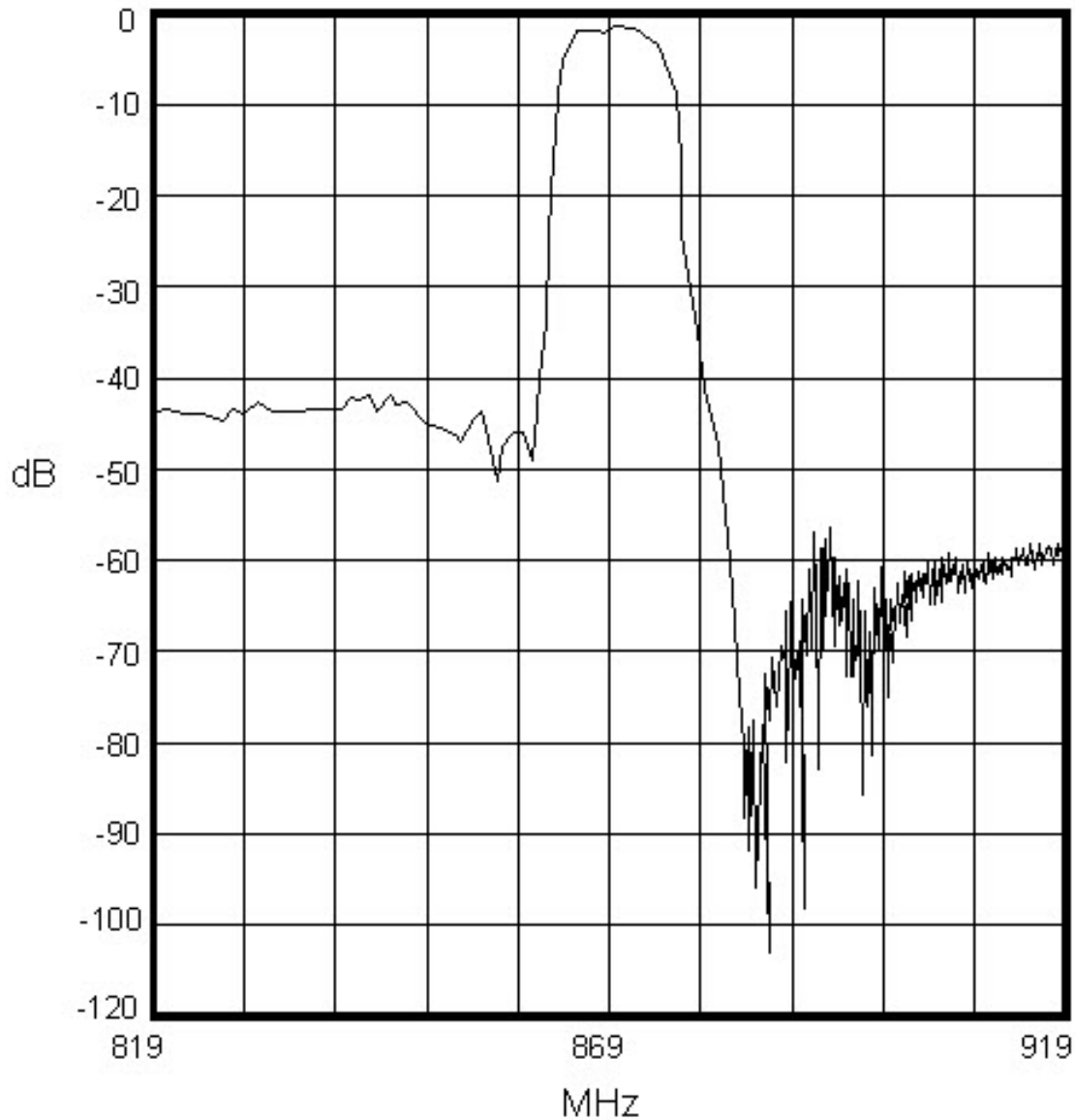


DESCRIPTION

- 869 MHz SAW bandpass filter with 10 MHz BW for band transceiver, receiver and transmitter applications.
- 3.8 x 3.8 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE



SPECIFICATION

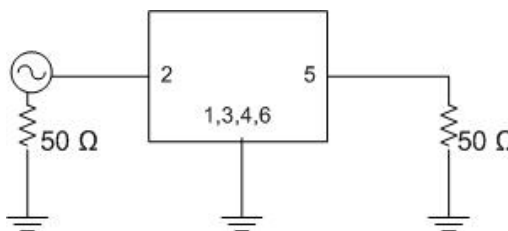
Parameter	Min	Typ	Max	Units
Center Frequency F_c	-	869.0	-	MHz
Bandwidth (3dB)	-	10	-	MHz
Insertion Loss ¹	-	3.0	3.5	dB
Passband Amplitude Ripple ¹	-	1	1.8	dB
Stopband Rejection, 0-300MHz ²	45	50	-	dB
Stopband Rejection, 300-856 MHz ²	40	45	-	dB
Stopband Rejection, 856-858 MHz ²	15	20	-	dB
Stopband Rejection, 879-885 MHz ²	15	20	-	dB
Stopband Rejection, 885-1500 MHz ²	48	53	-	dB
Stopband Rejection, 1500-2000MHz ²	35	40	-	dB
Input/Output impedance	-	50	-	Ω
Ambient Temperature	-	25	-	$^{\circ}\text{C}$

- Notes:
1. Within passband 868 to 870 MHz.
 2. Dependent upon PC board layout.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature Range	-40	85	$^{\circ}\text{C}$
Input Power Level	-	27	dBm
Max. D. C. Voltage between Each Terminal	-	10	V

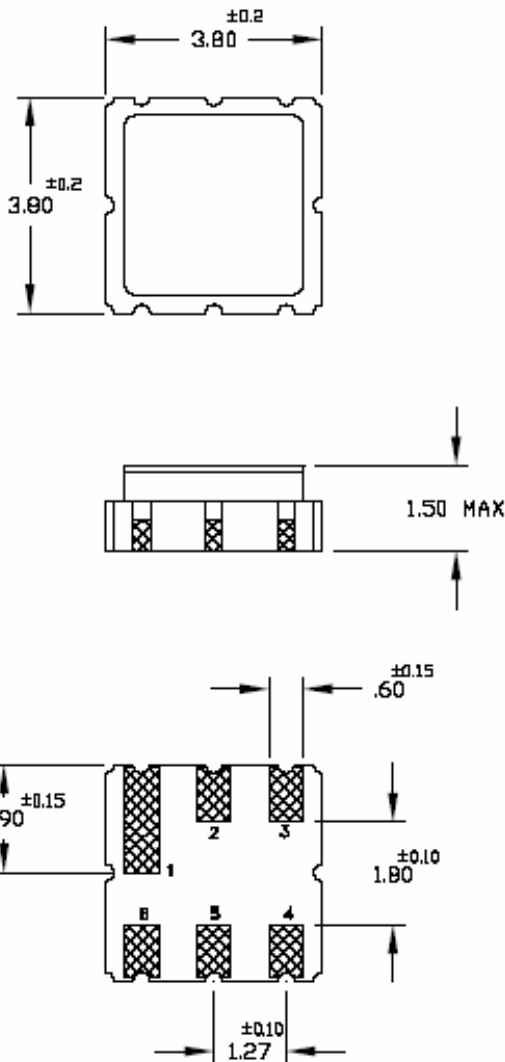
MATCHING CIRCUIT



Notes

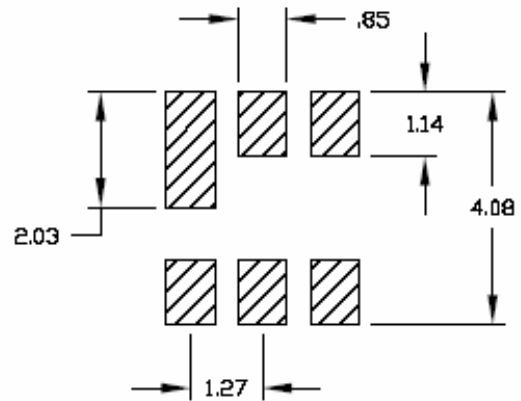
- 50 ohm single ended operation.
- Matching components are not required.

PACKAGE OUTLINE



Package Material:
Body: Al_2O_3 ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 μ m min,
over a 1.3-8.9 μ m Ni plating

SUGGESTED FOOTPRINT



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 2
Output: 5
Ground: 1, 3, 4, 6

MARKING



ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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