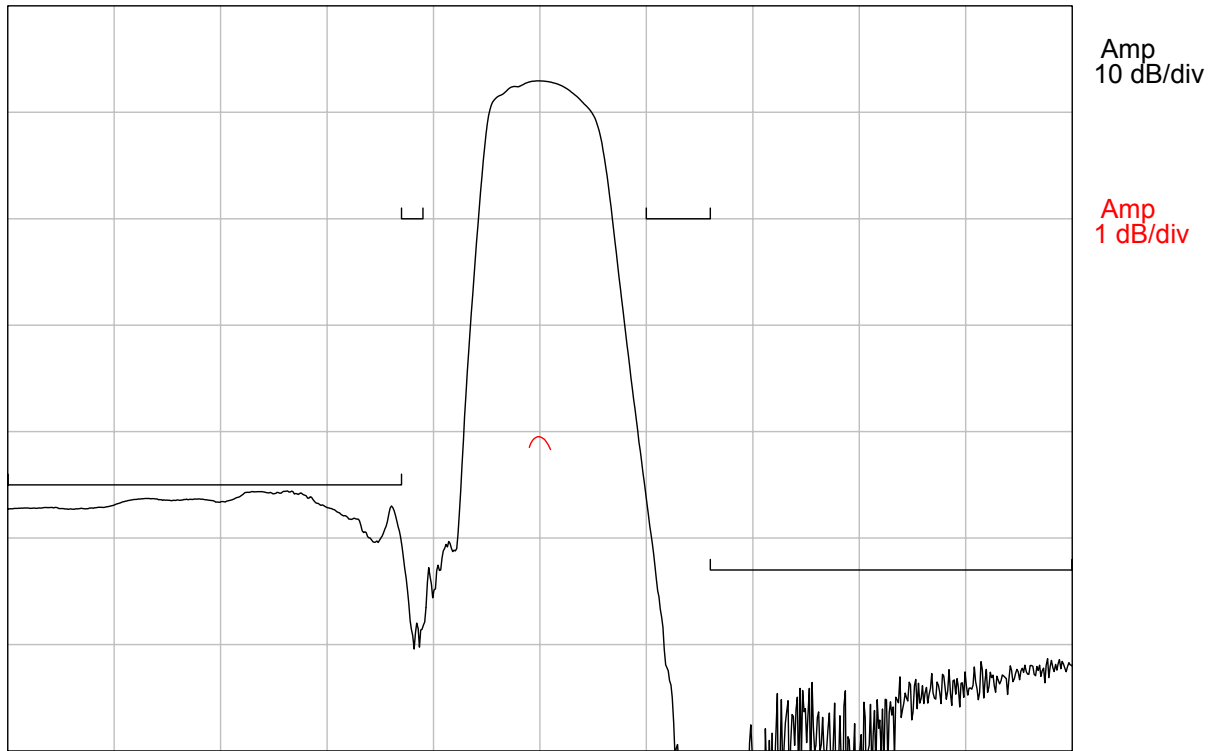


DESCRIPTION

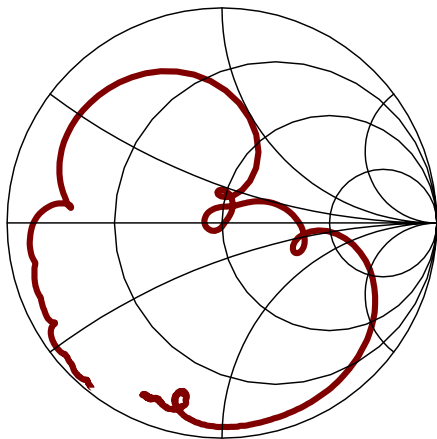
- Miniature 869 MHz SAW Filter with a 6 MHz typical 3dB bandwidth.
- 3 x 3 mm Ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

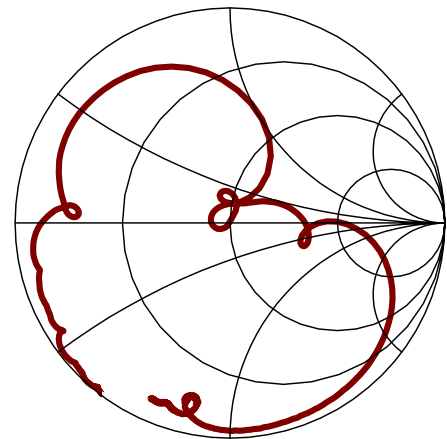


Center = 869 MHz, 10 MHz/div (125 kHz incr)

S11 (819-919 MHz)



S22 (819-919 MHz)



SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency F_c	-	869	-	MHz
3 dB Bandwidth	-	5.98	-	MHz
Insertion Loss (868 - 870 MHz)	-	2.2	3.5	dB
Ripple Deviation (868 - 870 MHz)	-	0.4	1.8	dB
Rejection				
DC to 300 MHz ¹	45	52	-	dB
300 to 856 MHz ¹	40	45	-	dB
856 to 858 MHz ¹	15	45	-	dB
879 to 885 MHz ¹	15	40	-	dB
885 to 1500 MHz ¹	48	52	-	dB
Input/Output Impedance	50			Ω
Temp Coefficient of Frequency	-31			ppm/K

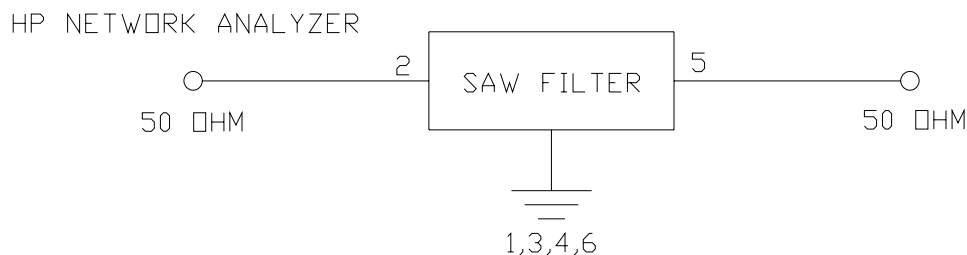
Notes: 1. Reference level from 0 dB.

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 ₁	-	+27	dBm
D.C. Voltage	-	10	Vdc

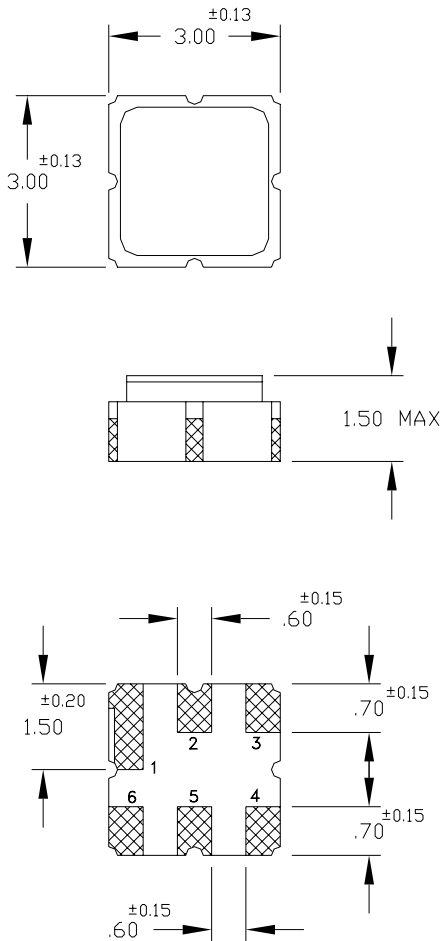
Note: The filter will operate without degradation for a minimum of 50,000 hours with GSM Signals (880-960 MHz) at +20 dBm.

MATCHING CIRCUIT

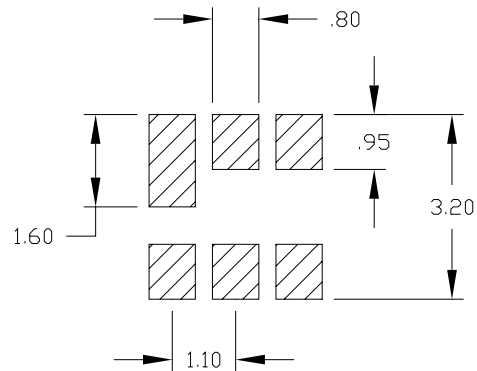


Matching components are not required.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



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

Units: mm

Tolerances are typically ± 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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