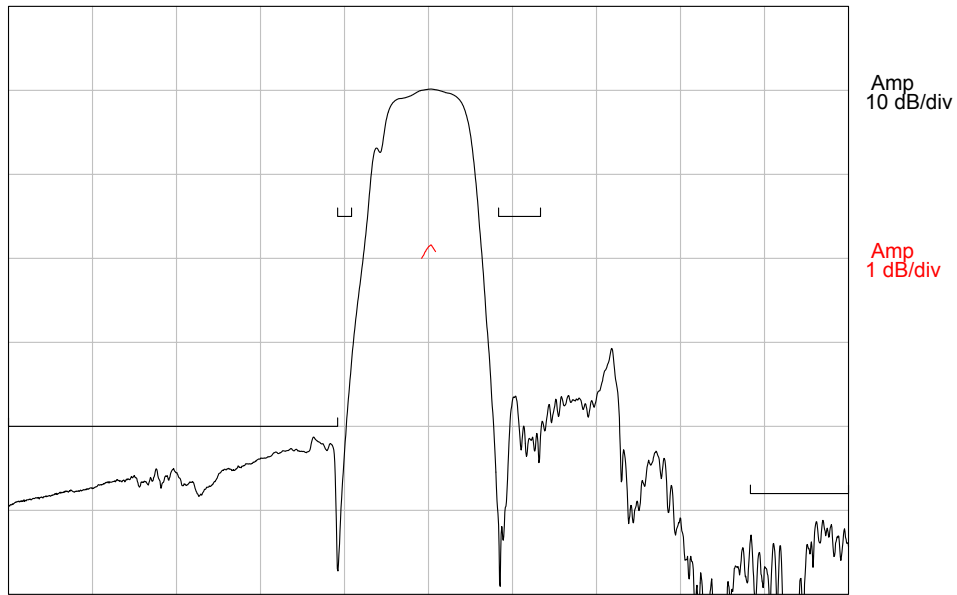


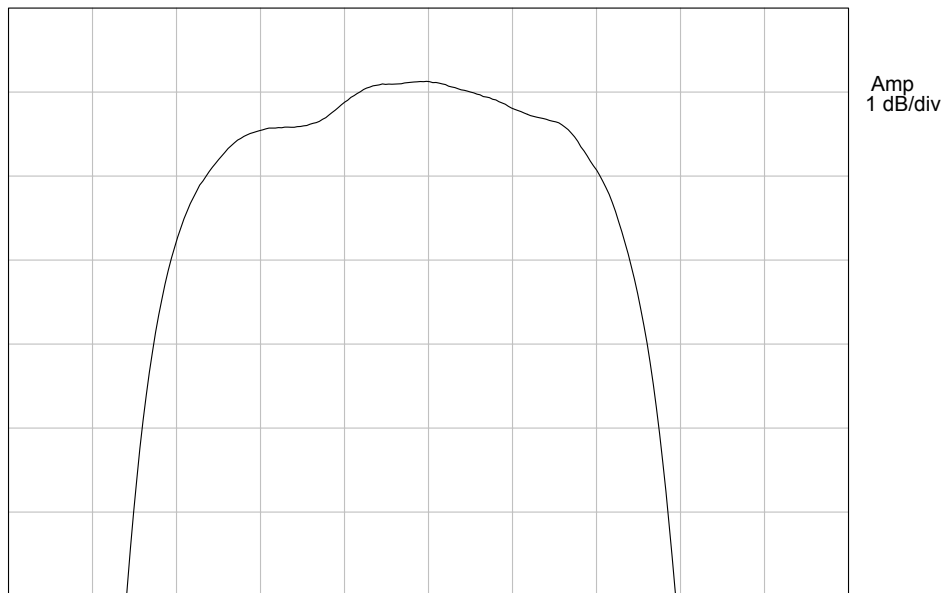
## DESCRIPTION

- Miniature 869 MHz with an 12 MHz typical 3dB bandwidth SAW Filter.
- 3 x 3 mm Ceramic LCC package.
- RoHS compliant.

## TYPICAL PERFORMANCE



Center = 869 MHz, 12 MHz/div (75 kHz incr)



Center = 869 MHz, 2 MHz/div (75 kHz incr)

## SPECIFICATION

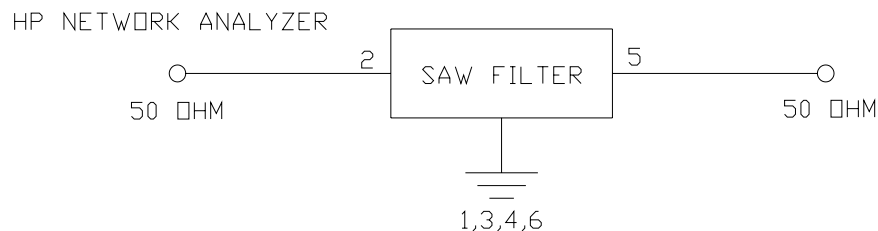
Parameter	Min	Typ	Max	Units
Center Frequency $F_C$	-	869	-	MHz
Bandwidth	3	-	-	MHz
Insertion Loss (868 - 870 MHz)	-	-	4.0	dB
Ripple Deviation (868 - 870 MHz)	-	-	1.8	dB
Rejection <sup>1</sup>				
DC to 300 MHz	45	-	-	dB
300 to 856 MHz	40	-	-	dB
856 to 858 MHz	15	-	-	dB
879 to 885 MHz	15	-	-	dB
885 to 915 MHz	30	-	-	dB
915 to 929 MHz	48	-	-	dB
929 to 1500 MHz	39	-	-	dB
Input/Output Impedance	50			$\Omega$ // 0nF
Temp Coefficient of Frequency	-31			ppm/K

Note 1 Rejection levels are referenced to 0 dB.

## MAXIMUM RATINGS

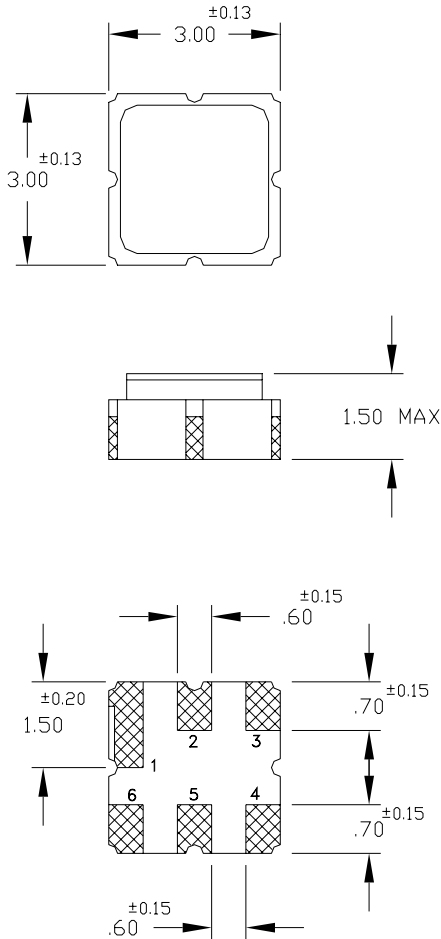
Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-30	+85	°C
Input Power Level	-	+27	dBm
D.C. Voltage	-	10	Vdc

## MATCHING CIRCUIT

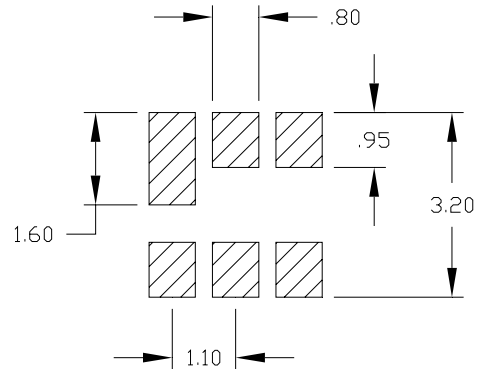


Matching components are not required.

**PACKAGE OUTLINE**



**SUGGESTED FOOTPRINT**



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

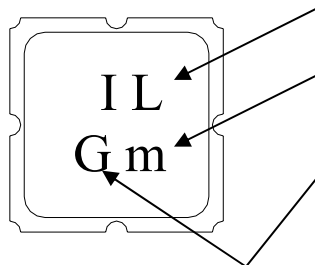
**Units:** mm

Tolerances are typically  $\pm 0.15$  mm  
except where indicated.

**Pad Configuration:**

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

**MARKING**



Model Identification: IL = SF0869BA02504S

Week Code: A through Z followed by a through z equals 52 weeks.

Year Code: A = 2001, B=2002, C=2003, to J=2010 (Code A through J repeats every 10 years)

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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