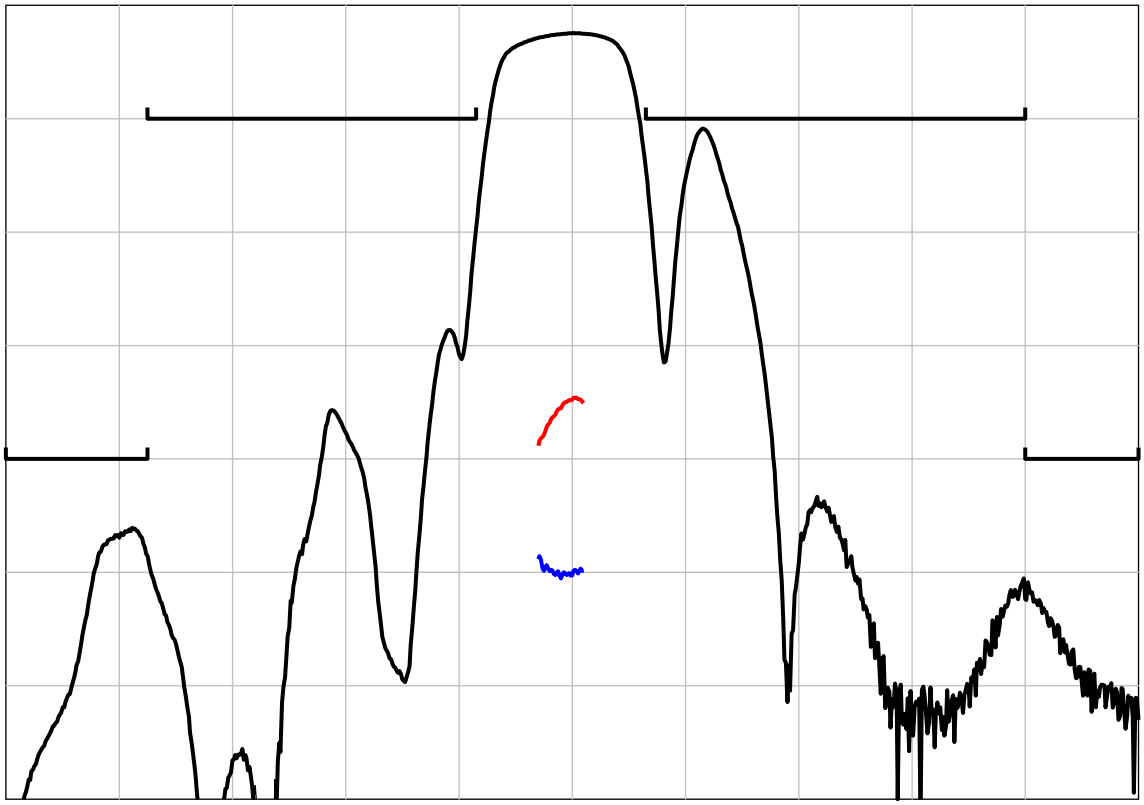
DESCRIPTION

- 948 MHz SAW bandpass filter with 8 MHz bandwidth.
- 3.8 x 3.8 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE



Horizontal:	Frequency - Center :	950	MHz
	Span :	200	MHz
Vertical:	Magnitude :	10	dB/div
	Magnitude :	1	dB/div
	Group Delay :	20	ns/div

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SPECIFICATION

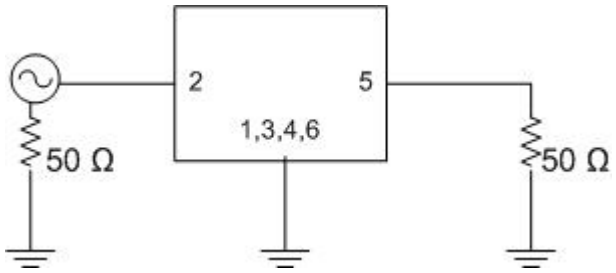
Parameter	Min	Typ	Max	Units
Nominal Center Frequency F_C	-	948	-	MHz
Passband	944	-	952	MHz
Maximum Insertion Loss over the Passband	-	3.1	4	dB
Absolute Delay	-	30	-	ns
Rejection (0.3 to 875 MHz) [1]	40	45	-	dB
Rejection (875 to 933 MHz) [1]	10	20	-	dB
Rejection (963 to 1030 MHz) [1]	10	11	-	dB
Rejection (1030 to 1350 MHz) [1]	40	51	-	dB
Rejection (1350 to 1500 MHz) [1]	50	56	-	dB
Amplitude Variation over the Passband	-	0.5	1.5	dB p-p
Group Delay Ripple in Passband	-	5	200	ns p-p
Source/Load Impedance		50		ohms
Temperature Coefficient of Frequency, Tc [2]	-	-32	-	ppm/˚C
Ambient Temperature (Tref)	-	23	-	˚C

Notes: 1. Absolute level
2. Typical shift of filter frequency response with temperature is $\Delta f = (T-T_{ref})*Tc*Fc$.

MAXIMUM RATINGS

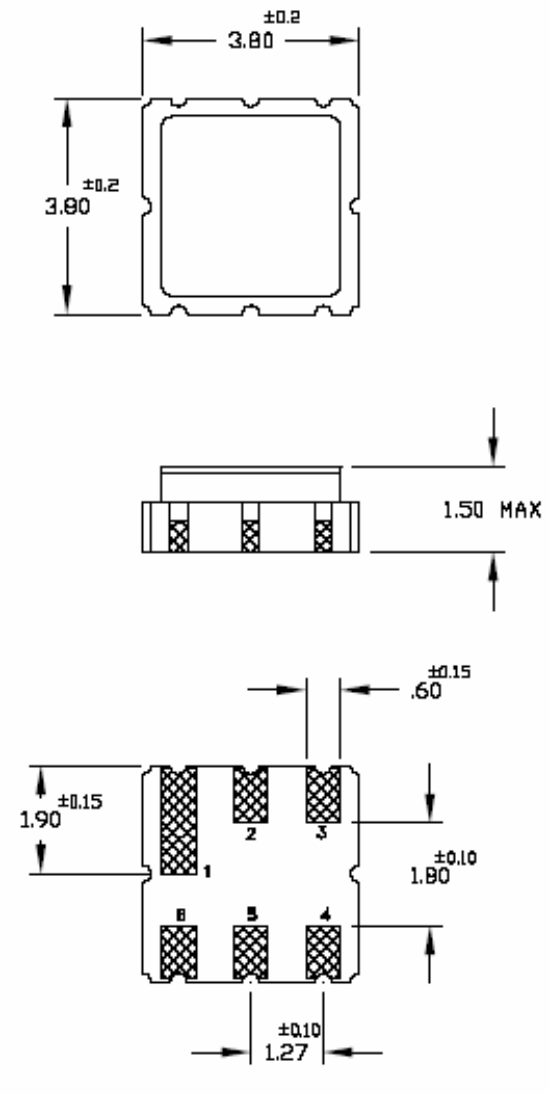
Parameter	Min	Max	Units
Storage Temperature Range	-45	85	˚C
Operating Temperature Range	-30	60	˚C
Input Power Level	-	10	dBm

MATCHING CIRCUIT

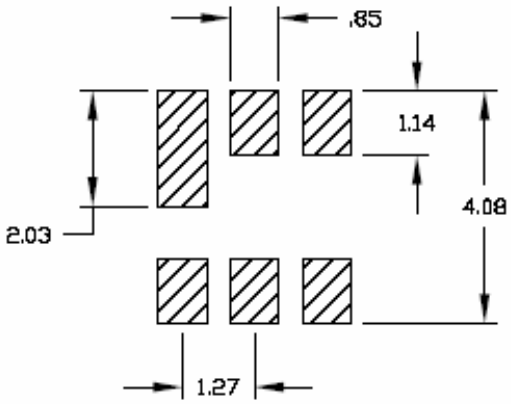


Notes:
- 50 ohm single ended operation.
- Matching components are not required.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are ±0.15 mm except where indicated.

Pad Configuration:

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

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

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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