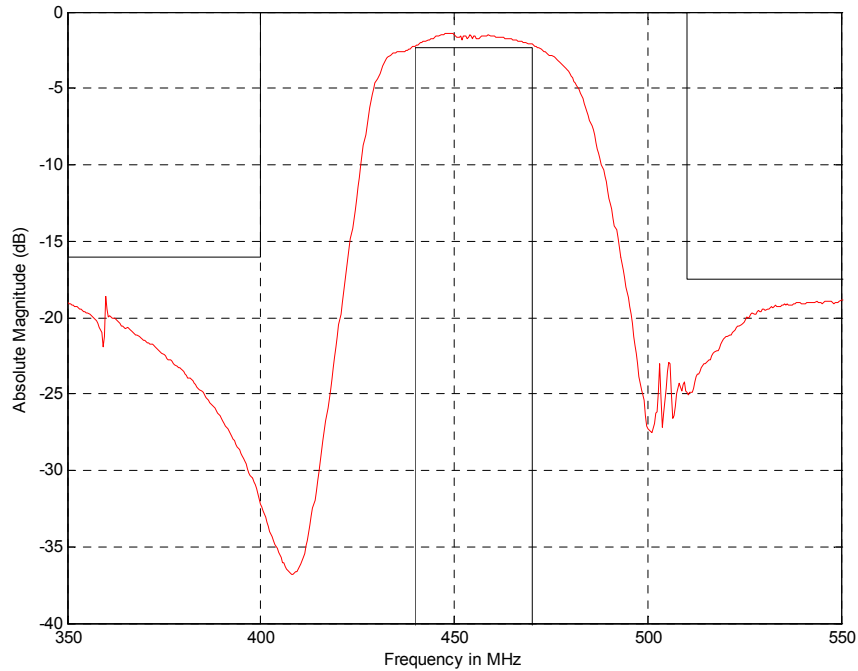


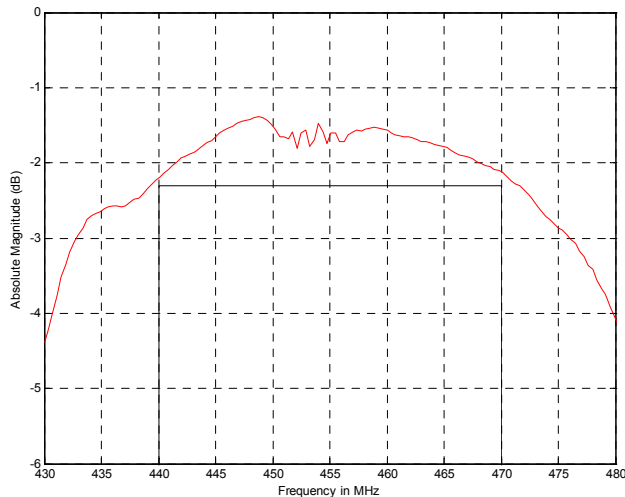
DESCRIPTION

- 455 MHz SAW bandpass filter with 30 MHz bandwidth.
- 5 x 5 mm LCC package.
- RoHS compliant.

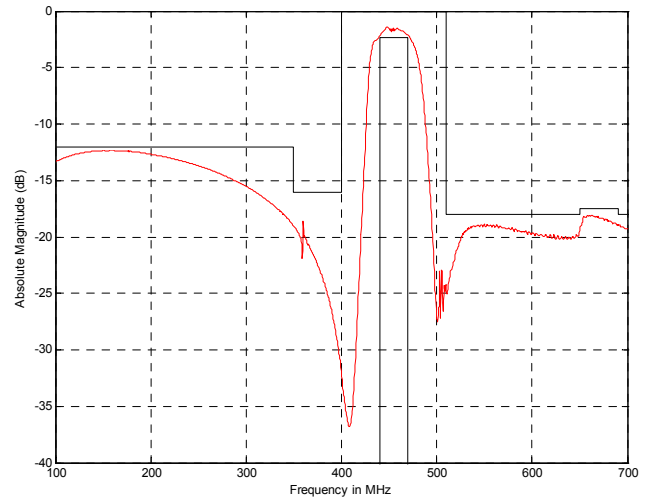
TYPICAL PERFORMANCE



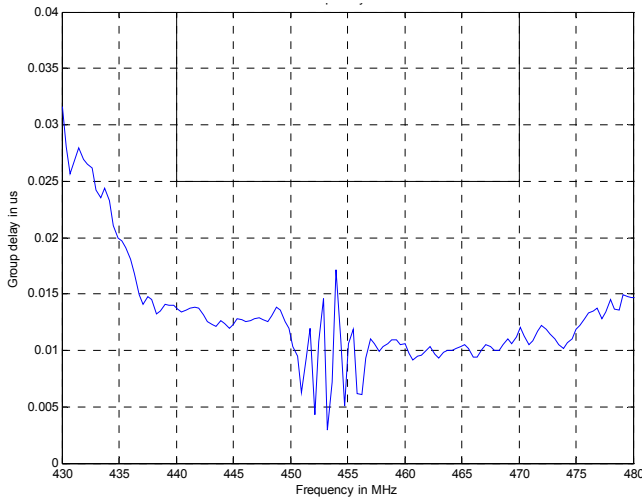
Horizontal: Frequency : 50 MHz/div
Vertical: Absolute Magnitude : 5 dB/div



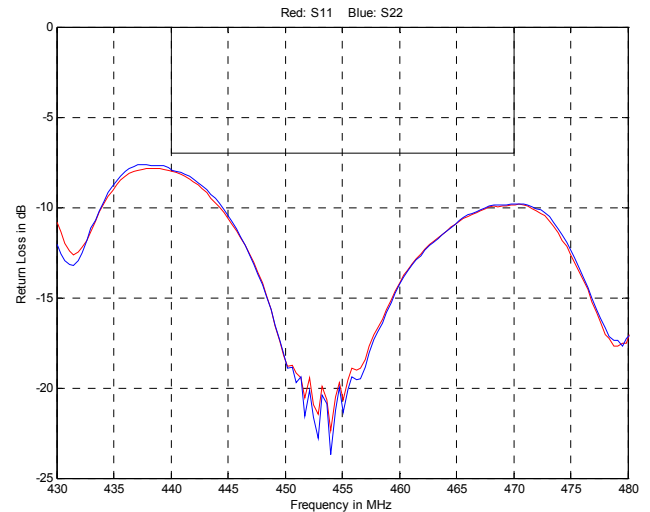
Horizontal: Frequency : 5 MHz/div
Vertical: Absolute Magnitude : 1 dB/div



Horizontal: Frequency : 100 MHz/div
Vertical: Absolute Magnitude : 5 dB/div



Horizontal: Frequency : 5 MHz/div
Vertical: Group Delay : 5 ns/div



Horizontal: Frequency : 5 MHz/div
Vertical: Return Loss : 5 dB/div

SPECIFICATION

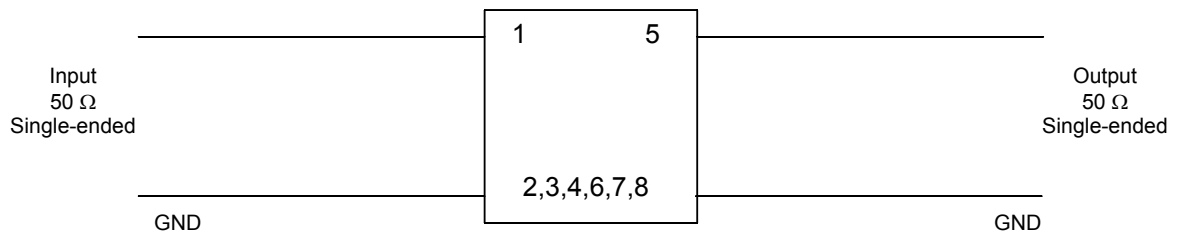
Parameter	Min	Typ	Max	Units
Nominal Center Frequency F_C	-	455	-	MHz
Passband	440	-	470	MHz
Maximum Insertion Loss over the Passband	-	2.2	2.3	dB
Absolute Delay	-	12	-	ns
Rejection (10 to 350 MHz) ¹	12	12.3	-	dB
Rejection (350 to 400 MHz) ¹	16	17	-	dB
Rejection (510 to 650 MHz) ¹	18	18.5	-	dB
Rejection (650 to 690 MHz) ¹	17.5	18.0	-	dB
Rejection (690 to 1000 MHz) ¹	18	18.5	-	dB
Group Delay Variation over the Passband	-	18	25	ns
Input Return Loss over the Passband	7	8	-	dB
Output Return Loss over the Passband	7	8	-	dB
Source/Load Impedance	50			ohms
Temperature Coefficient of Frequency, T_c ²	-	-76	-	ppm/°C
Ambient Temperature (T_{ref})	-	25	-	°C

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

MAXIMUM RATINGS

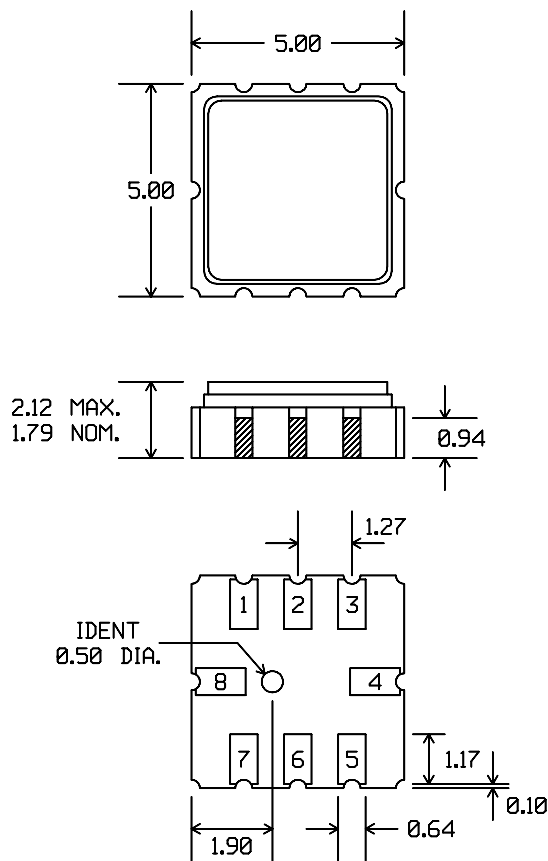
Parameter	Min	Max	Units
Storage Temperature Range	-45	85	°C
Operating Temperature Range	-30	60	°C
Input Power Level	-	13	dBm

MATCHING CIRCUIT



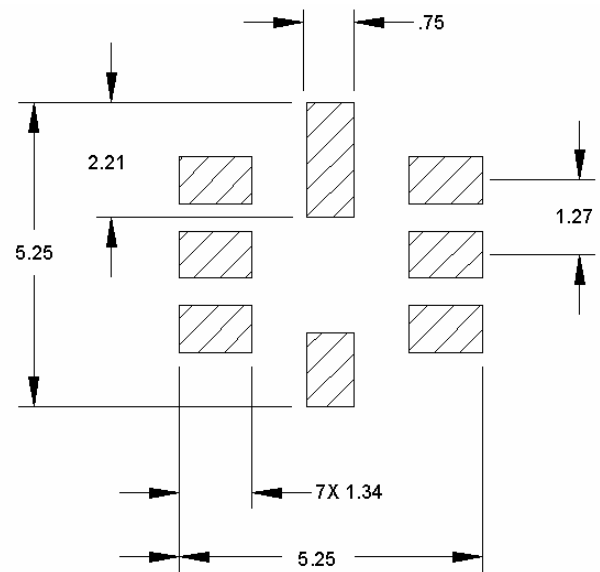
Note: Matching components are not required.

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 for the overall length and width, which are nominal values.

Pad Configuration:

Input: 1
Output: 5
Ground: 2,3,4,6,7,8

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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