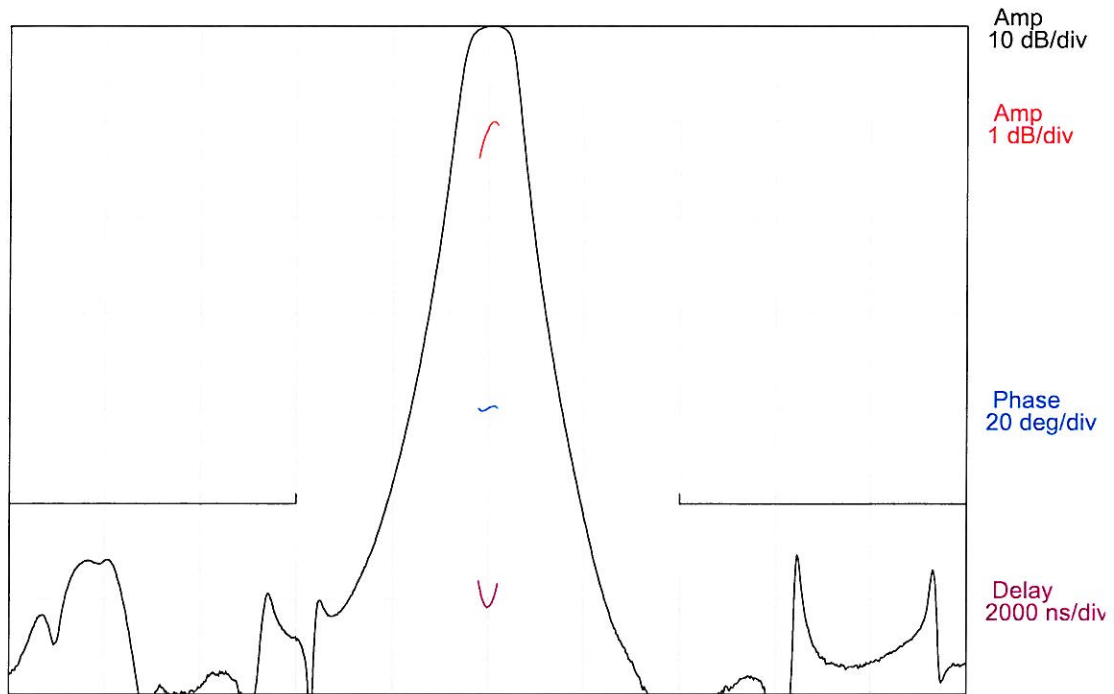


DESCRIPTION

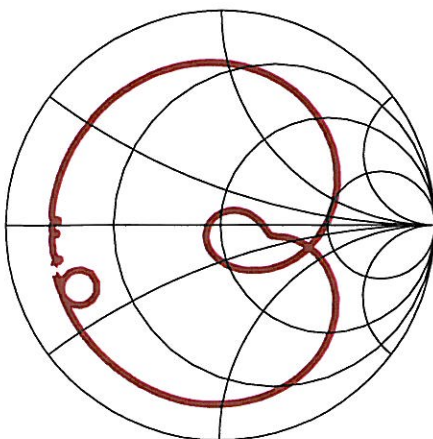
- 140 MHz SAW bandpass filter with 0.04 MHz bandwidth.
- 7 x 5 mm ceramic LCC package, 10 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

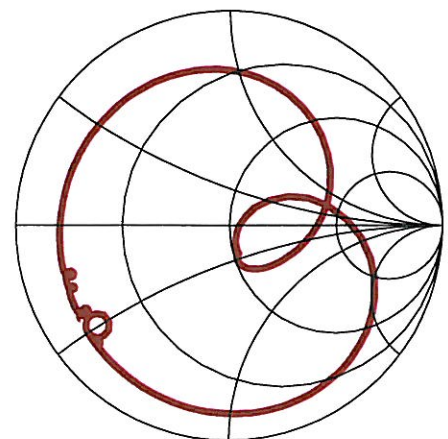


Center = 140 MHz, 0.2 MHz/div (2.5 kHz incr)

S11 (139-141 MHz)



S22 (139-141 MHz)



SPECIFICATION

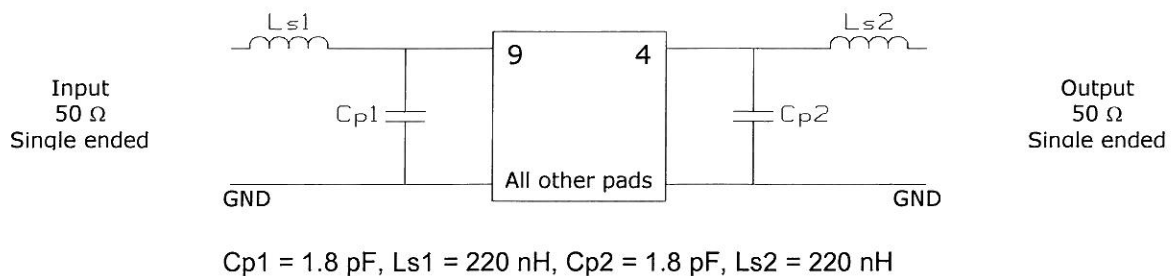
Parameter	Min	Typ	Max	Units
Center Frequency, F_C ¹	-	140	-	MHz
Minimum Insertion Loss	-	3.2	6	dB
Amplitude Ripple (139.98-140.02 MHz) ²	-	0.4	3	dB p-p
Group Delay Ripple (139.98-140.02 MHz) ²	-	600	12000	ns p-p
3 dB Bandwidth ²	0.04	0.10	-	MHz
50 dB Bandwidth ²	-	0.41	0.45	MHz
Relative Attenuation (139-139.6 MHz) ²	50	55	-	dB
Relative Attenuation (140.4-141 MHz) ²	50	55	-	dB
Source and Load Impedance	50			Ω
Ambient Temperature	25			$^{\circ}\text{C}$

Notes: 1. Reference frequency. Computed as mean of the 3 dB frequencies.
2. All dB values are referenced to the Insertion Loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-50	95	$^{\circ}\text{C}$
Operating Temperature Range	-40	85	$^{\circ}\text{C}$
DC Voltage	-	5	V
Input Power Level	-	+10	dBm

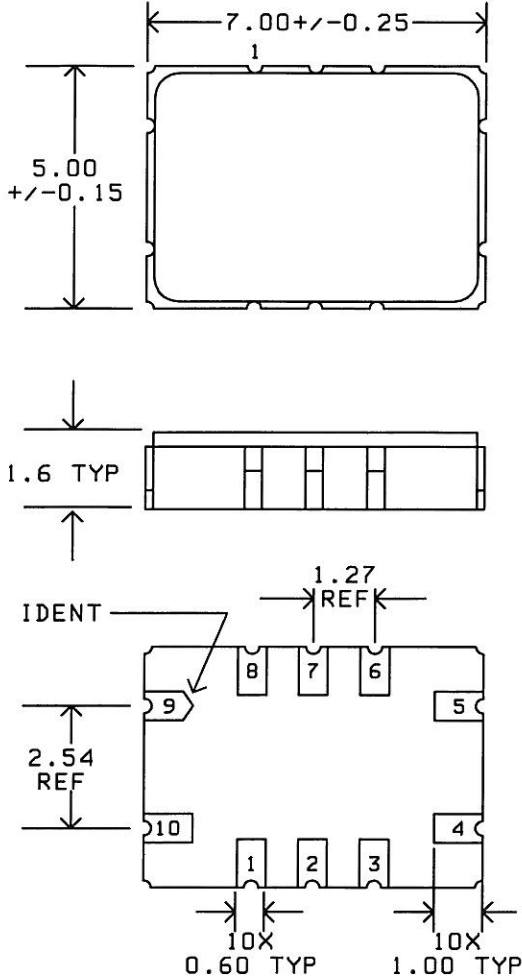
MATCHING CIRCUIT



Notes:

- Recommend $\pm 2\%$ tolerance components. Typical inductor $Q=40$.
- Values shown are for reference only and may change depending on board layout.

PACKAGE OUTLINE

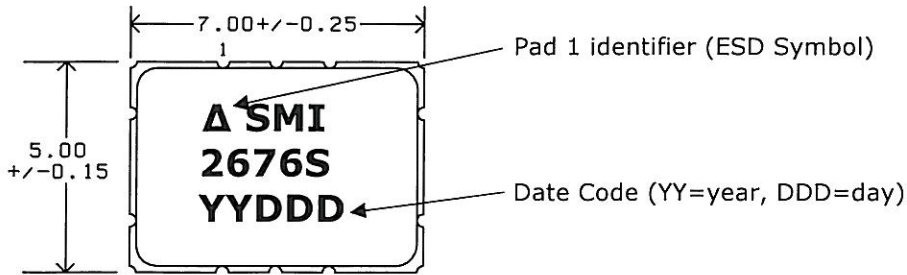


Units: mm
Tolerances are ±0.15 mm except where indicated.

Pad Configuration:
Input: 9
Output: 4
Ground: All other pads

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

MARKING



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