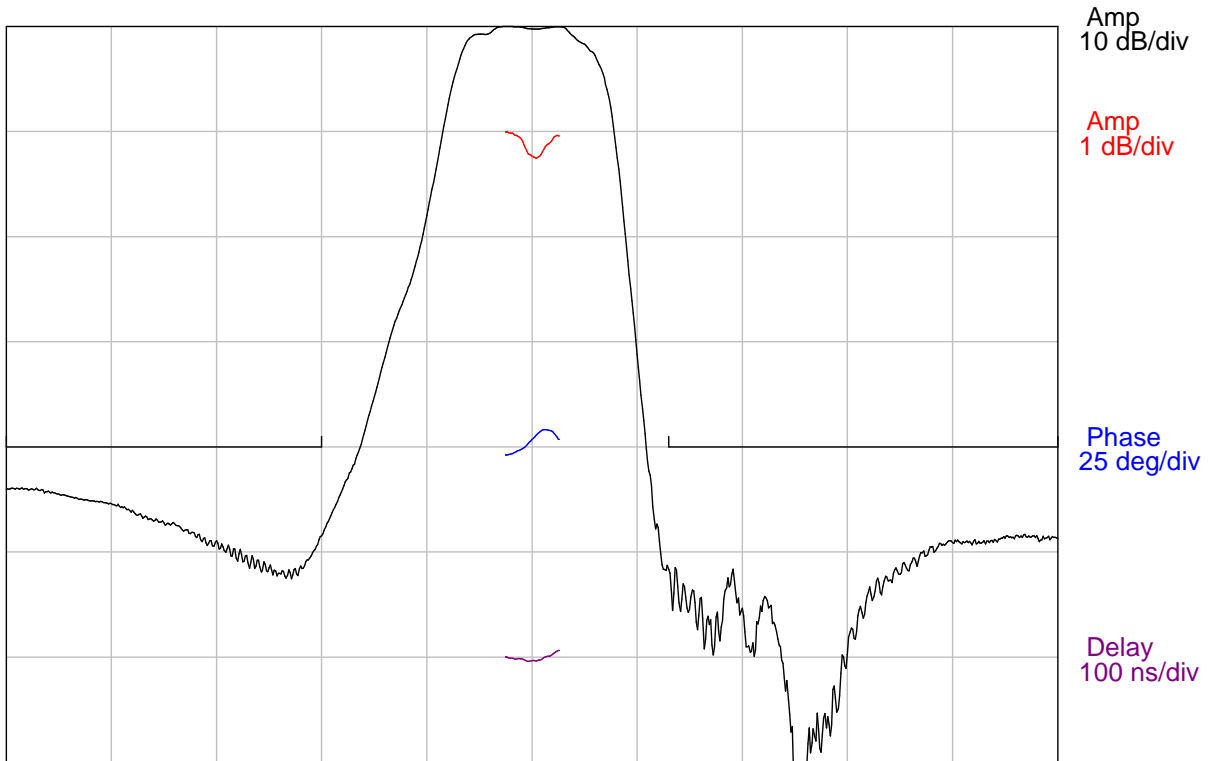


DESCRIPTION

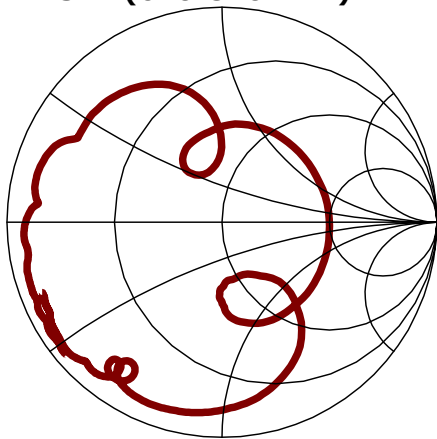
- 720 MHz SAW bandpass filter with nominal bandwidth of 19 MHz.
- 5 x 5 mm 8-pad LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

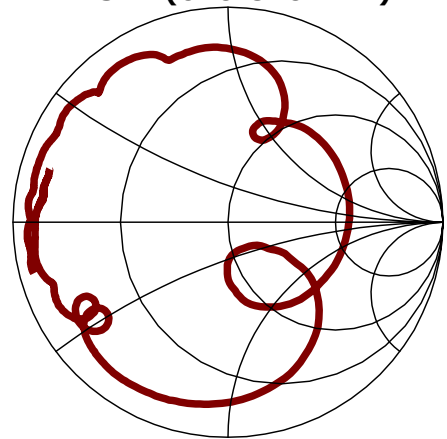


Center = 720 MHz, 20 MHz/div (250 kHz incr)

S11 (620-820 MHz)



S22 (620-820 MHz)



SPECIFICATION

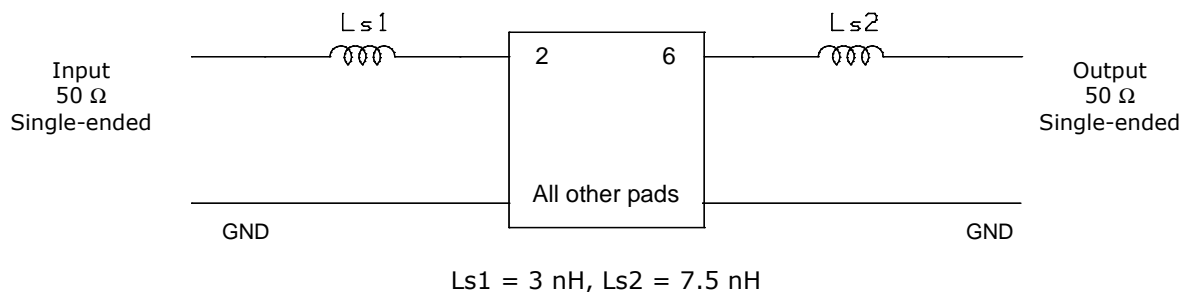
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	720	-	MHz
Minimum Insertion Loss	-	5.4	6	dB
Absolute Delay	-	0.04	-	us
1 dB Bandwidth ²	-	19.6	-	MHz
3 dB Bandwidth ²	16	25.8	-	MHz
Lower 3 dB Frequency ²	-	706.3	712	MHz
Upper 3 dB Frequency ²	728	732.1	-	MHz
20 dB Bandwidth ²	-	38.6	40	MHz
Amplitude Ripple ($F_c \pm 5$ MHz)	-	0.3	3	dB p-p
Phase Deviation ($F_c \pm 5$ MHz)	-	6	12	deg p-p
Group Delay Ripple ($F_c \pm 5$ MHz)	-	10	30	ns p-p
Rejection (500-660 MHz) ²	40	44	-	dB
Rejection (746-950 MHz) ²	40	48	-	dB
Input Return Loss ($F_c \pm 7.5$ MHz)	-	5	-	dB
Output Return Loss ($F_c \pm 7.5$ MHz)	-	5	-	dB
Temperature Coefficient of frequency	-	-80	-	ppm/°C
Source/Load Impedance	50			ohms
Ambient Temperature	25			°C

- Notes:
1. Defined as the average of the lower and upper 3 dB frequencies at room ambient.
 2. All dB levels are defined relative to the insertion loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature	-40	85	°C
Input Power Level	-	+10	dBm

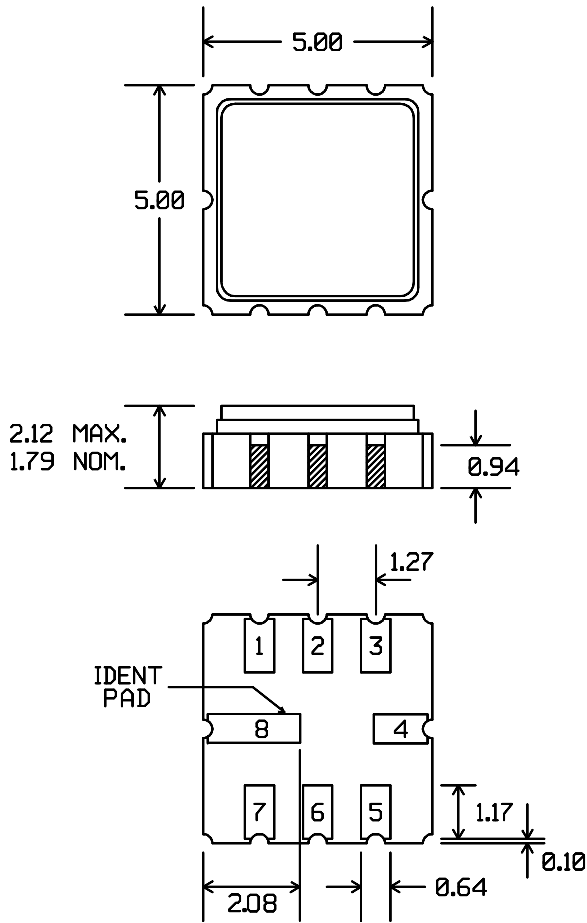
MATCHING CIRCUIT



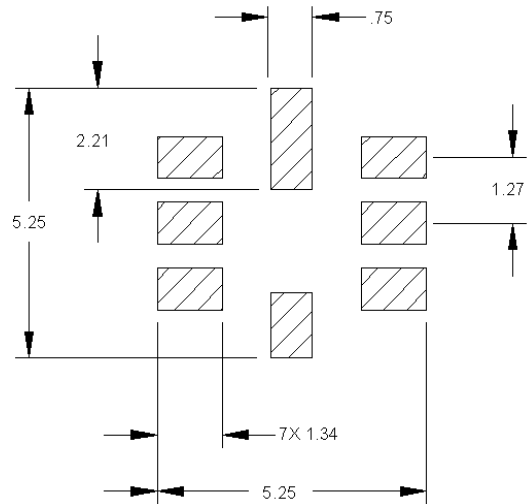
Notes:

- Matching components are not required.
- Device is to operate in a 50 ohm single-ended system.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

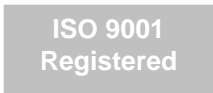
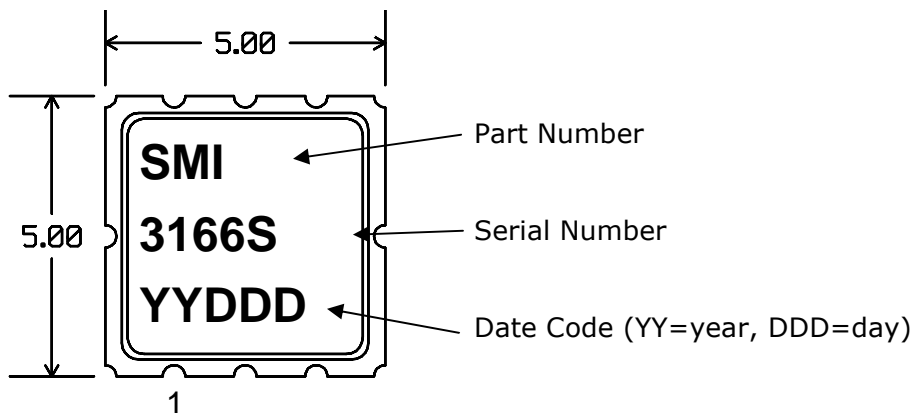
Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

- Input: 2
- Output: 6
- To be grounded: all other pads

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

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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