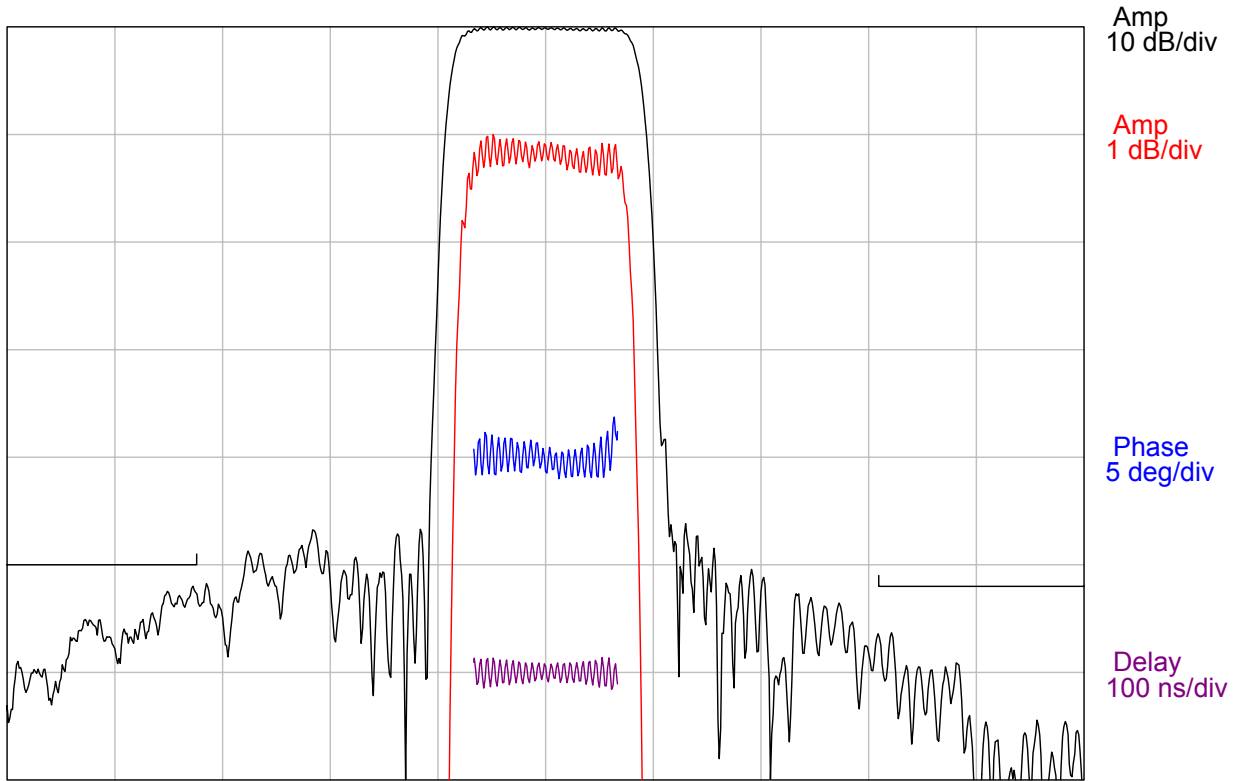


DESCRIPTION

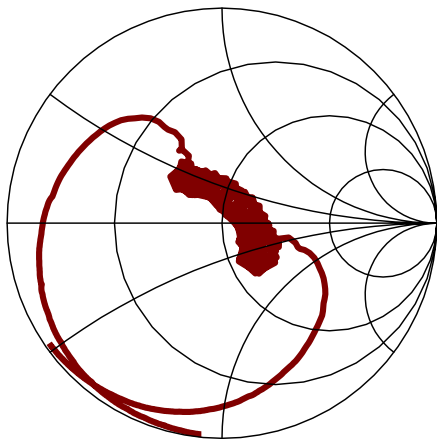
- 153.6 MHz SAW bandpass filter with 20 MHz bandwidth.
- 7 x 5 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

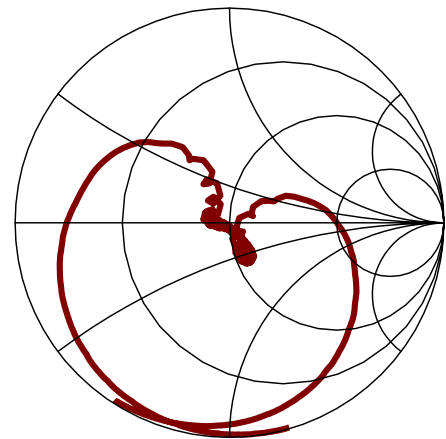


Center = 153.6 MHz, 15 MHz/div (187.5 kHz incr)

S11 (78.6-228.6 MHz)



S22 (78.6-228.6 MHz)



SPECIFICATION

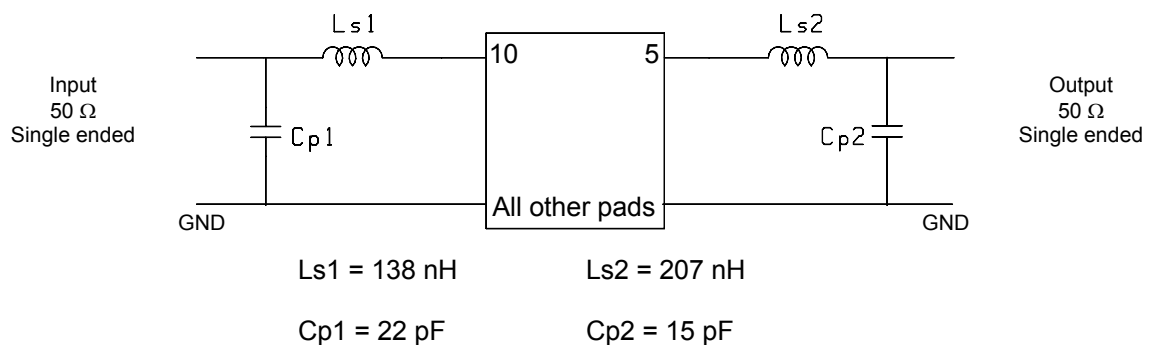
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	153.6	-	MHz
Minimum Insertion Loss	-	8.8	12	dB
Passband Ripple (143.6 to 163.6 MHz)	-	0.4	1	dB p-p
Group Delay Deviation (143.6 to 153.6 MHz)	-	30	60	ns p-p
Phase Ripple (143.6 to 153.6 MHz)	-	3.5	5	deg p-p
Absolute Delay	-	560	-	ns
1 dB bandwidth ²	20	23.4	-	MHz
Relative Attenuation (10 to 105 MHz) ²	50	52	-	dB
Relative Attenuation (200 to 230 MHz) ²	52	55	-	dB
Relative Attenuation (230 to 1000 MHz) ²	40	60	-	dB
Input Return Loss at F_c	10	15	-	dB
Output Return Loss at F_c	10	18	-	dB
Source and Load Impedance	50			ohms
Temperature Coefficient of Frequency	-86			ppm/°C
Ambient Temperature	-	25	-	°C

- Notes:
1. Reference frequency. Computed as mean of the 3 dB frequencies.
 2. All dB values are referenced to the insertion loss value.

MAXIMUM RATINGS

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

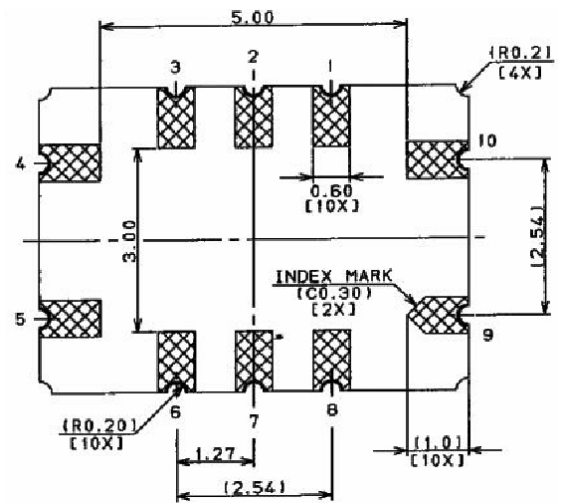
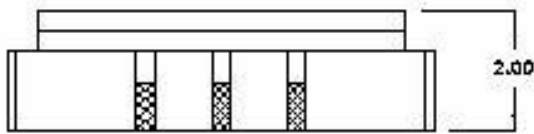
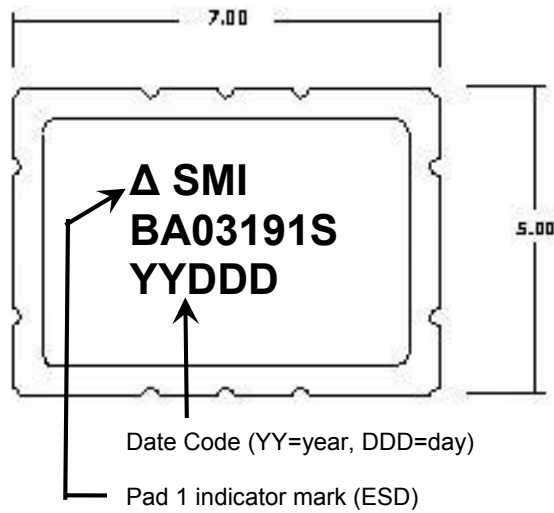
MATCHING CIRCUIT



Notes:

- Recommend 2% or better tolerance matching components. Typical inductor Q=40.
- Optimum values may change depending on board layout. Values shown are intended as a guide only.

PACKAGE OUTLINE



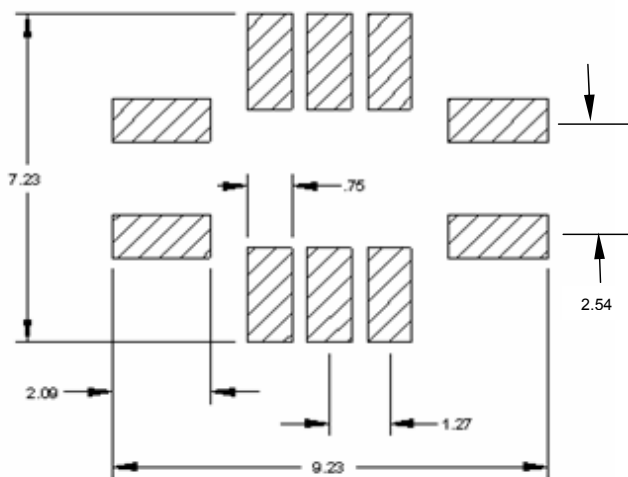
Units: mm

Tolerances are typically ± 0.15 mm except where indicated.

Pad Configuration:

Input: 10
Output: 5
Ground: All other pads

SUGGESTED FOOTPRINT



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

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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