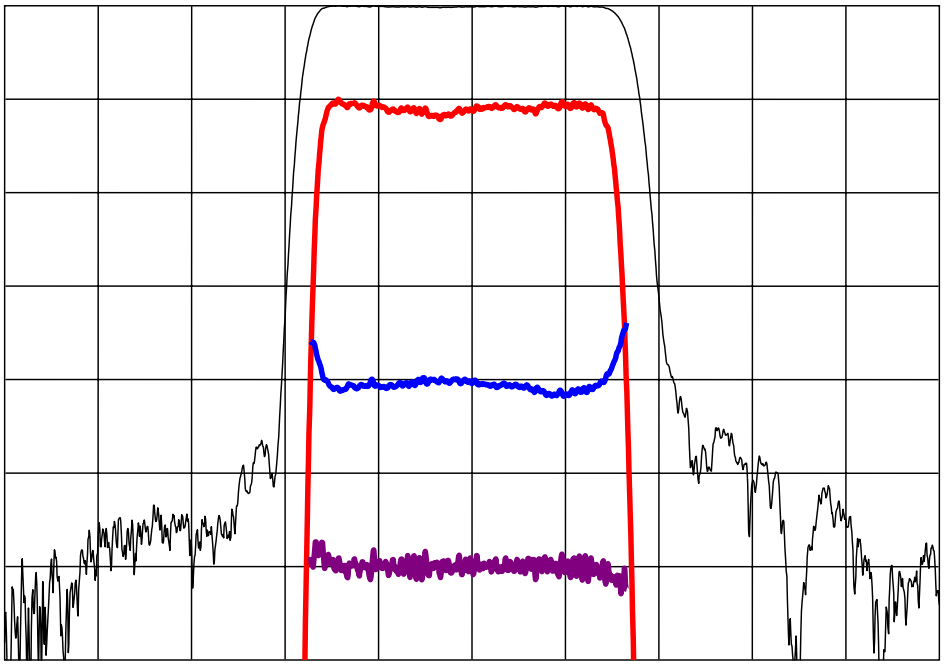
DESCRIPTION

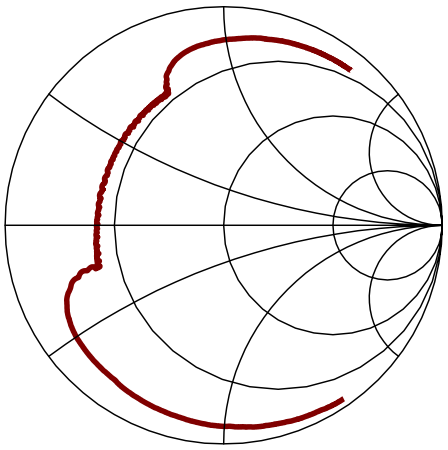
- 76.8 MHz SAW bandpass filter with 20 MHz bandwidth.
- 13.3 x 6.5 mm SMP package.
- RoHS compliant.

TYPICAL PERFORMANCE

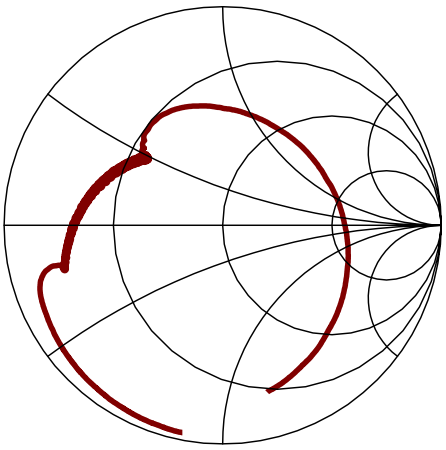


Horizontal:	Frequency :	8	MHz/div
Vertical from Top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	5	deg/div
	Group Delay :	50	ns/div

S11



S22



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SPECIFICATION

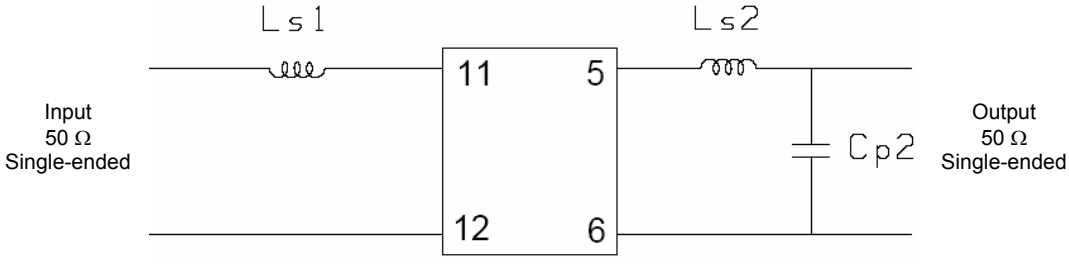
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) [1]	-	76.80	-	MHz
Insertion Loss at Fc	-	16.2	20	dB
Lower 1 dB Frequency	-	63.5	66.8	MHz
Upper 1 dB Frequency	86.8	89.3	-	MHz
Amplitude Ripple [2]	-	0.3	1.0	dB p-p
Amplitude Ripple in any 3.84 MHz Band [2]	-	0.2	0.6	dB p-p
Phase Linearity	-	1.3	5	deg p-p
Group Delay Variation [2]	-	20	100	ns p-p
Group Delay Variation in any 3.84 MHz Band [2]	-	20	70	ns p-p
Absolute Delay	-	1.0	1.2	µs
Rejection (5 to 7 MHz) [2]	40	49	-	dB
Rejection (7 to 26 MHz) [2]	45	53	-	dB
Rejection (35 to 57 MHz) [2]	40	50	-	dB
Rejection (97 to 118 MHz) [2]	40	45	-	dB
Rejection (128 to 149 MHz) [2]	45	50	-	dB
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	25	-	˚C

Notes:
1. Average of lower and upper 3 dB band edge frequencies.
2. Evaluated over 66.8 to 86.8 MHz.
3. Specification is met over operating temperature range.

MAXIMUM RATINGS

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

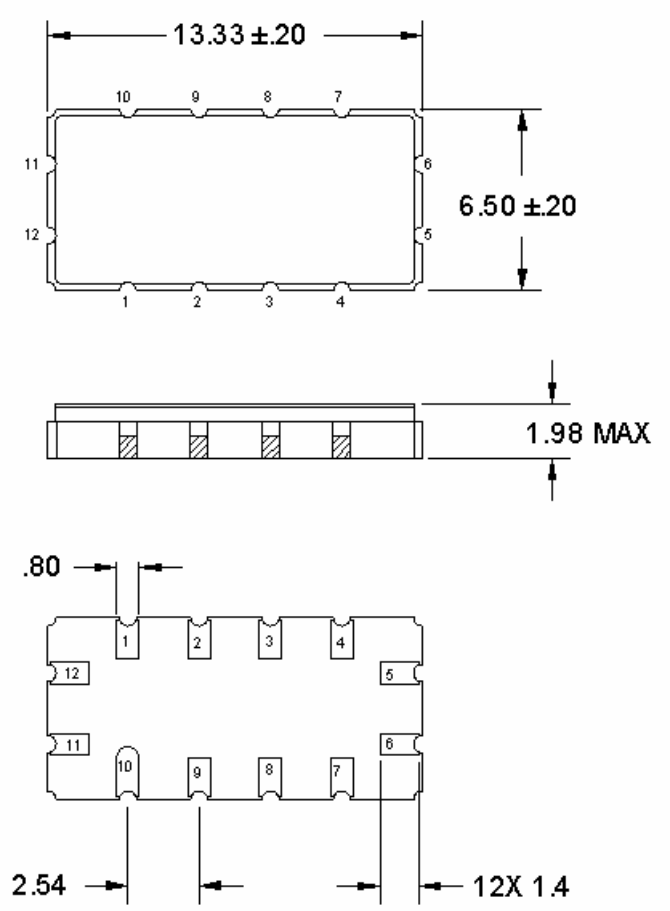
MATCHING CIRCUIT



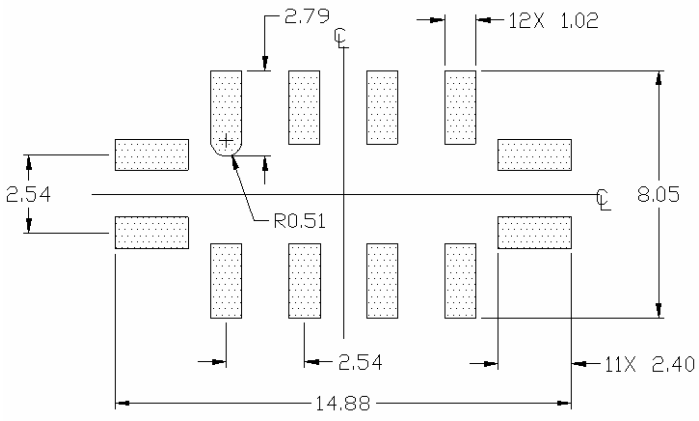
Typical component values:
(Minimum inductor Q = 45) Ls1 = 150 nH Ls2 = 100 nH
Cp2 = 41 pF

Notes:
1. Recommend the use of +/-2% tolerance components.
2. Component values shown are for guidance only and may change depending on board layout.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are ±0.15 mm except for the overall length and width, which are nominal values.

Pad Configuration:

Input:	11
Input return:	12
Output:	5
Output return:	6
Ground:	1,2,3,4,7,8,9,10

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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