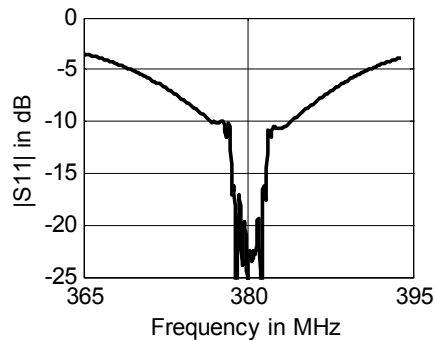
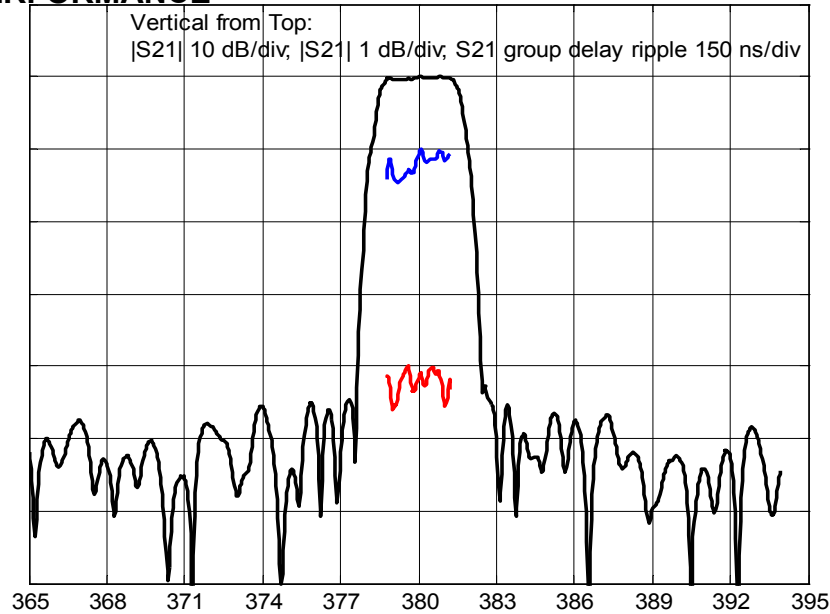


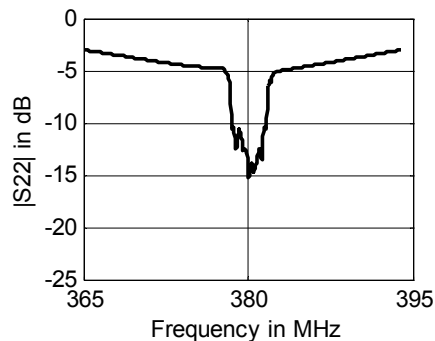
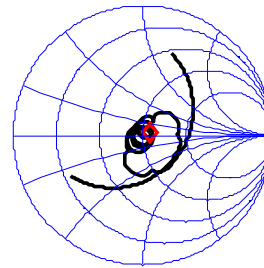
DESCRIPTION

- 380 MHz, 2.5 MHz bandwidth high performance IF SAW filter in 7x5 mm surface mount package for WiMAX applications.
- RoHS compliant.

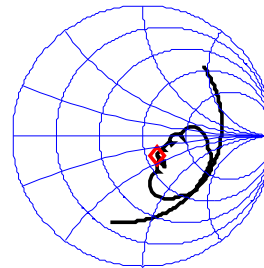
TYPICAL PERFORMANCE



S11, from 365 to 395 MHz



S22, from 365 to 395 MHz



Spectrum Microwave

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SPECIFICATION

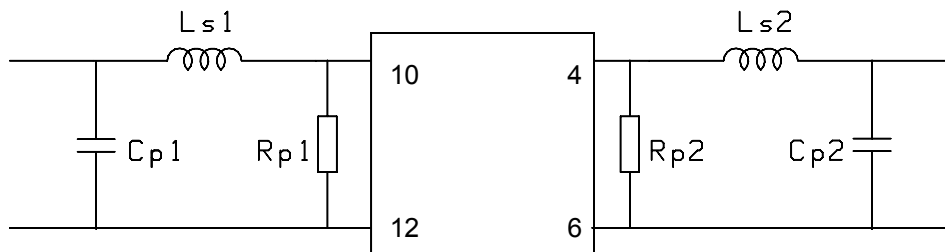
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	379.9	380.0	380.1	MHz
Insertion Loss	-	9.4	13	dB
Passband Ripple within 380+/-1.15 MHz	-	0.53	1	dB
Group Delay Ripple within 350+/-1.25 MHz	-	95	150	ns
Absolute Group Delay	-	0.77	3	μs
1 dB Bandwidth ²	2.5	2.74	-	MHz
30 dB Bandwidth	-	4.52	4.9	MHz
40 dB Bandwidth	-	4.75	5.2	MHz
Rejection at 380+/- 3 MHz	40	45	-	dB
Rejection at 380+/- 40 MHz	45	50	-	dB
Input and Output Return Loss at 380 MHz	8	12	-	dB
Substrate Material	-	Quartz	-	
Operating Temperature Range	-40	25	85	°C
Temperature Coefficient of Frequency (Tc)	-	-0.036	-	ppm/°C ²
System Source and Load Impedance	-	50	-	Ω

Notes: 1. Average of lower & upper 30 dB frequencies.
2. Rejection relative to insertion loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Operating Temperature Range ¹	-40	+85	°C
Storage Temperature Range	-40	+85	°C
Input Power Level	-	+17	dBm

MATCHING CIRCUIT



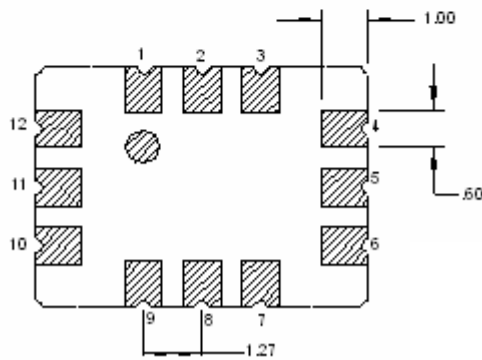
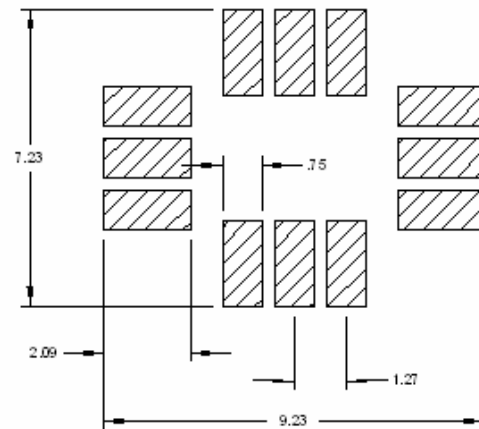
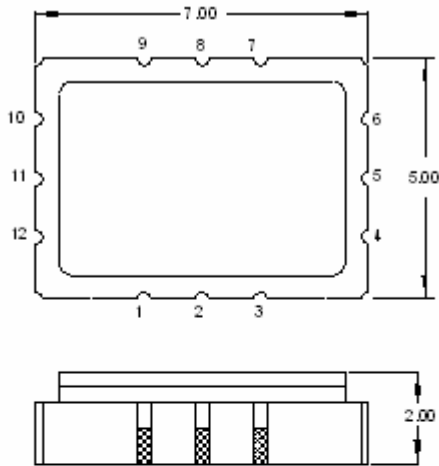
Minimum Inductor Q = 40

Ls1 =	22	nH	Ls2 =	27	nH
Cp1 =	27	pF	Cp2 =	15	pF
Rp1 =	3	KΩ	Rp2 =	3	KΩ

Notes:

1. Required component tolerances – inductors ±1% with min Q=40, capacitors ±5%.
2. Values shown are for reference only. Actual values are dependent upon board layout.

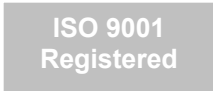
PACKAGE OUTLINE AND RECOMMENDED PCB LAYOUT



Pin Configuration:	
10	Input
12	Input Return
4	Output
6	Output Return
All Others	Ground

NOTES:
DIMENSIONS SHOWN ARE ALL
NOMINAL IN MILLIMETRES. ALL
TOLERANCES ARE ± 0.15 MM

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



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