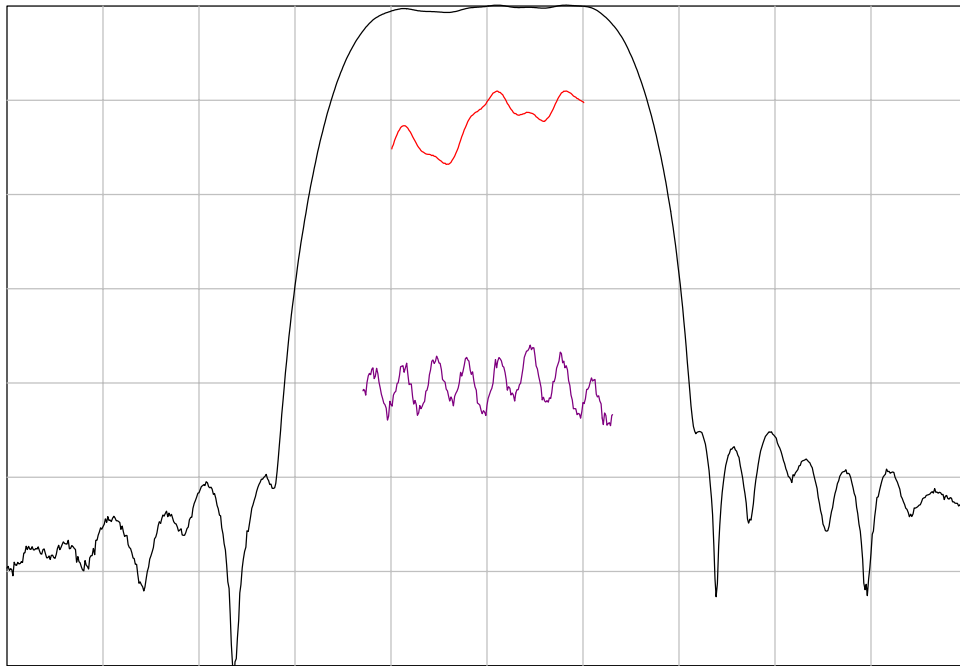


DESCRIPTION

- 44.004 MHz SAW bandpass filter with 1.3 MHz bandwidth for CDMA applications..
- 27.2 x 12.7 mm DIP.
- RoHS compliant.

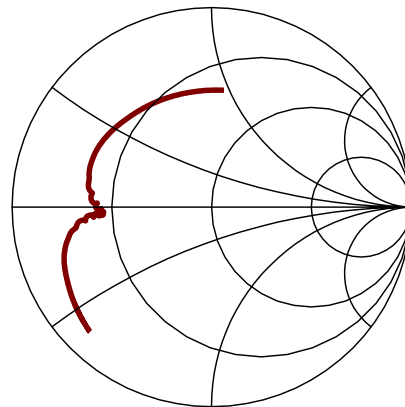
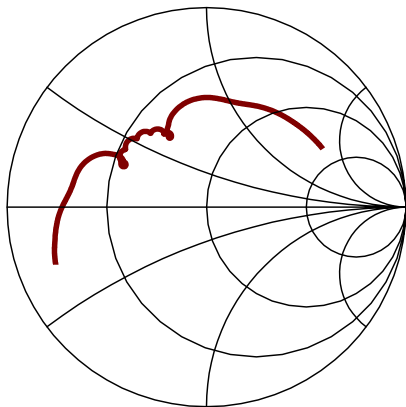
TYPICAL PERFORMANCE



Horizontal: Frequency : 1.5 MHz/div
 Vertical from top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Group Delay Deviation : 150 ns/div

S11 (36.5 to 51.5 MHz)

S22 (36.5 to 51.5 MHz)



SPECIFICATION

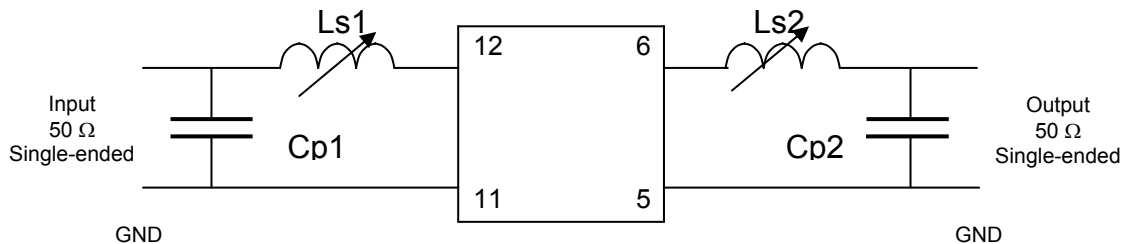
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	44.004	-	MHz
Insertion Loss (at Fc) ²	-	18.2	19.5	dB
Relative Attenuation (Fc+/-500 kHz) ³	-	0.7	1	dB
Relative Attenuation (Fc+/-660 kHz) ³	-	2.5	3	dB
Relative Attenuation (Fc+/-900 kHz) ³	12	16	-	dB
Relative Attenuation (Fc+/-1.16 MHz) ³	40	50	-	dB
Rejection (10 to 42.84 MHz)	40	50	-	dB
Rejection (45.16 to 70 MHz)	40	50	-	dB
Group Delay ripple (Fc+/-650 kHz) ²	-	120	160	ns p-p
Source and Load impedance	-	50	-	Ω
Substrate Material	Quartz			
Operating temperature	-	25	-	° C

Notes: 1. Fixed reference. All specified bandwidths are centered at or referenced to this frequency.
2. When matched with optimum component values.
3. With respect to the Insertion Loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	20	30	°C
Input Power Level		10	dBm

MATCHING CIRCUIT



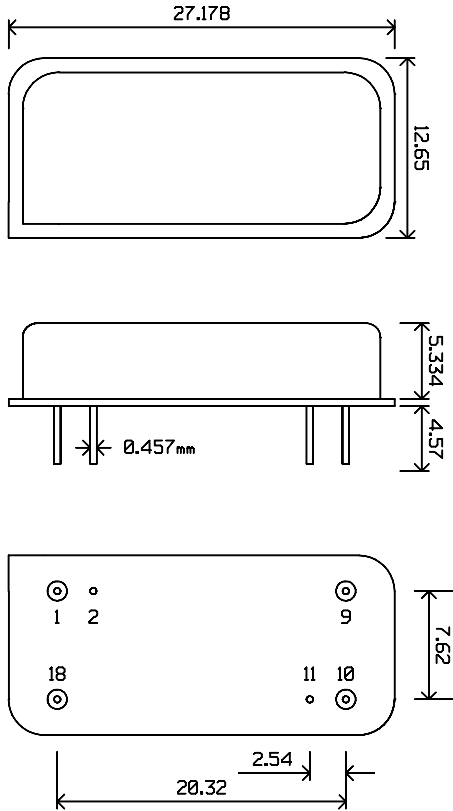
Typical component values:
(Minimum inductor Q = 40)

$$\begin{aligned} Ls1 &= 0.7-1.4 \text{ nH} & Ls2 &= 0.7-1.4 \text{ nH} \\ Cp1 &= 56 \text{ pF} & Cp2 &= 47 \text{ pF} \end{aligned}$$

Notes:

1. Variable inductors may be adjusted for minimum insertion loss.
2. Recommended inductors are Coilcraft SLOT-10-3-01 and SLOT-10-3-02.

PACKAGE OUTLINE



Units: mm

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

Pin Configuration:

Input:	18
Input return:	1
Output:	9
Output return:	10
Ground:	2,11

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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