

SAW Filter

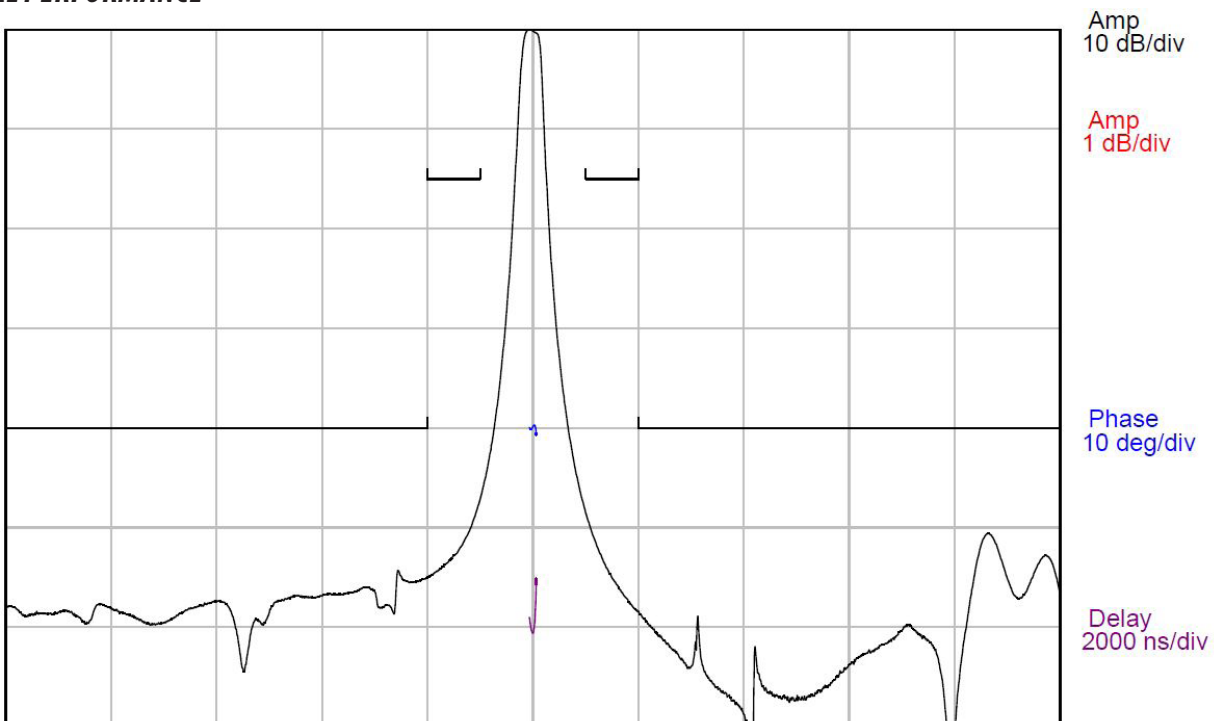
121.5 MHz SAW Bandpass Filter, 25 kHz Bandwidth



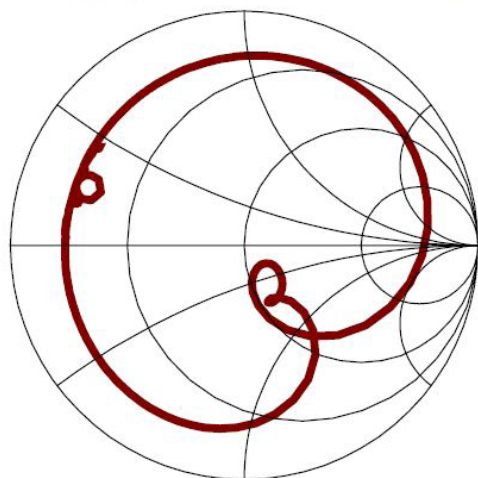
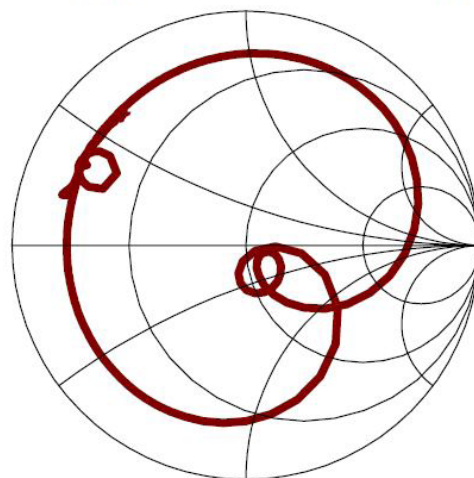
- 7 x 5 mm Ceramic LCC, 10 Pads
- RoHS Compliant

These filters are manufactured on quartz, which provides optimal temperature performance and are available from 80 -1600 MHz. This TCRF is designed for narrowband IF filtering such as in satellite transponders, directional finders and anti-jam modems. Other packaging styles are available for more rugged environments and applications. Standard part numbers as well as custom solutions are available. Please contact sales for more information.

TYPICAL PERFORMANCE



Center = 121.5 MHz, 0.4 MHz/div (2.5 kHz incr)

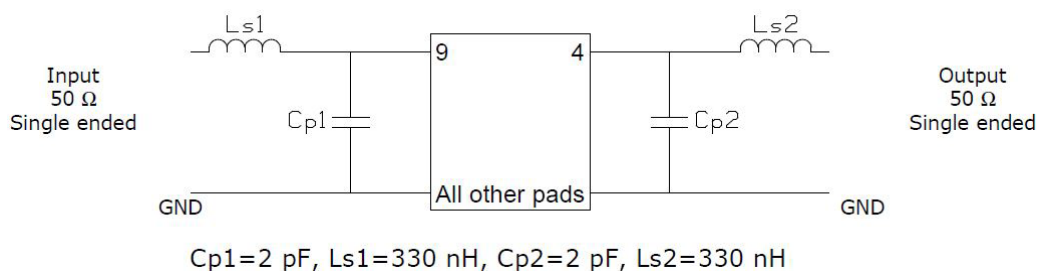
S₁₁ (119.5-123.5 MHz)**S₂₂ (119.5-123.5 MHz)****SPECIFICATION**

Parameter	Min	Typ	Max	Units
Center Frequency, (Fc) ¹	-	121.5	-	MHz
Minimum Insertion Loss	-	2.8	3.5	dB
1 dB Bandwidth ²	25	57	-	kHz
Lower 1 dB Frequency	-	121.468	121.487	MHz
Upper 1 dB Frequency	121.513	121.526	-	MHz
Lower 15 dB Frequency ²	121.3	121.44	-	MHz
Upper 15 dB Frequency ²	-	121.55	121.7	MHz
Lower 40 dB Frequency ²	121.1	121.35	-	MHz
Upper 40 dB Frequency ²	-	121.63	121.9	MHz
Amplitude Ripple (Fc +/- 13 kHz)	-	0.5	1	dB p-p
Relative Attenuation (121.1 - 121.3 MHz) ²	15	47	-	dB
Relative Attenuation (121.7 - 121.9 MHz) ²	15	48	-	dB
Relative Attenuation (119.5 - 121.1 MHz) ²	40	53	-	dB
Relative Attenuation (121.9 - 123.5 MHz) ²	40	50	-	dB
Attenuation at Fc ± 1.5 MHz ²	40	48	-	dB
Attenuation at Fc ± 4.5 MHz ²	40	48	-	dB
Source and Load Impedance	50			ohms
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	-55	85	°C
Operating Temperature Range	-55	85	°C
Input Power Level	-	+25	dBm

MATCHING CIRCUIT

Notes:

- Recommend ± 2% toleranced components; typical inductor Q~20 to 40.
- Values shown are for reference only and may change depending on board layout.

PACKAGE OUTLINE

