

SAW Filter

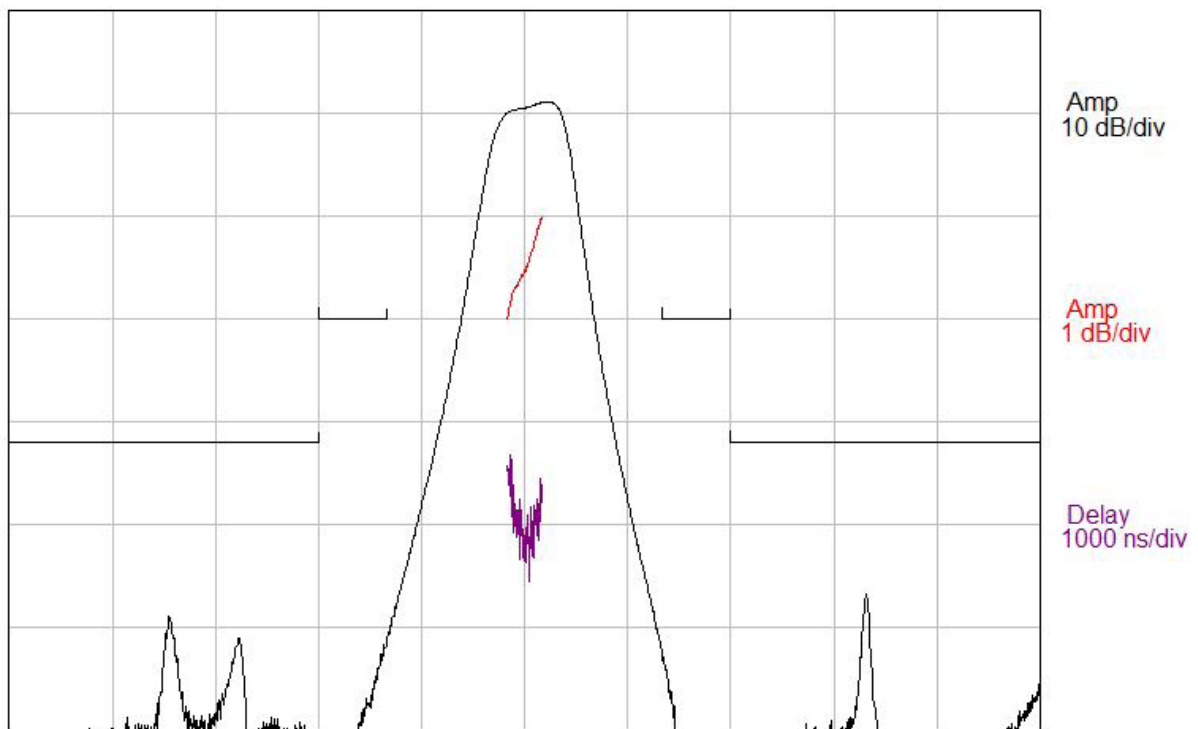
Miniature 246 MHz SAW Filter, 100 kHz Bandwidth



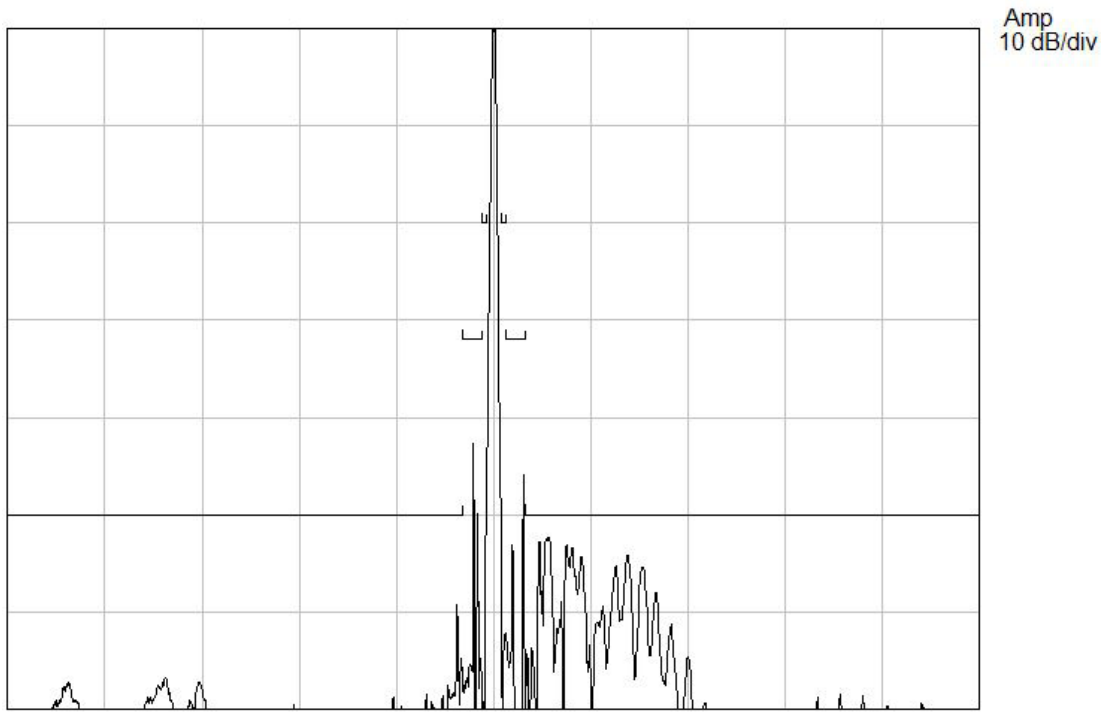
- 5 x 7 mm LCC, 10 Pads
- RoHS Compliant

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 = 246 MHz, 0.3 MHz/div (1.9 kHz incr)



Center = 246 MHz, 5 MHz/div (31.3 kHz incr)

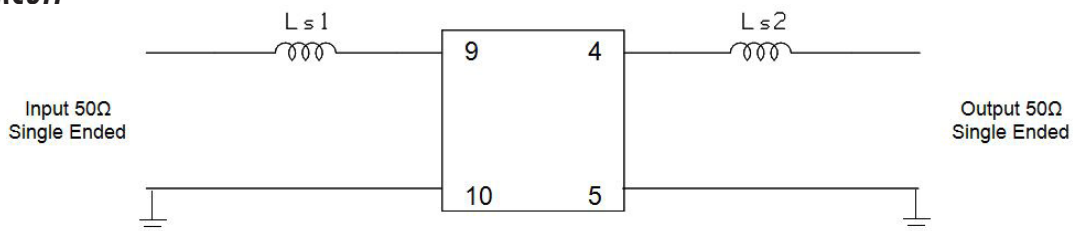
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency Fc	-	246	-	MHz
Maximum Insertion Loss (FC ± 50 kHz) IL	-	4.9	6.5	dB
Passband Variation (FC ± 50 kHz)	-	1.5	2.0	dB
Group Delay Variation (FC ± 50kHz)	-	1.4	3.0	µs
Attenuation (Reference level from min I.L.)				
Fc -25 to Fc -1.6 MHz	50	60	-	dB
Fc -1.6 to Fc -0.6 MHz	32	48	-	dB
Fc -0.6 to Fc -0.4 MHz	20	51	-	dB
Fc +0.4 to Fc +0.6 MHz	20	52	-	dB
Fc +0.6 to Fc +1.6 MHz	32	46	-	dB
Fc +1.6 to Fc +25 MHz	50	52	-	dB

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-40	+60	°C
Input Power Level	-	+10	dBm
DC Voltage	-	5	VDC

MATCHING CIRCUIT



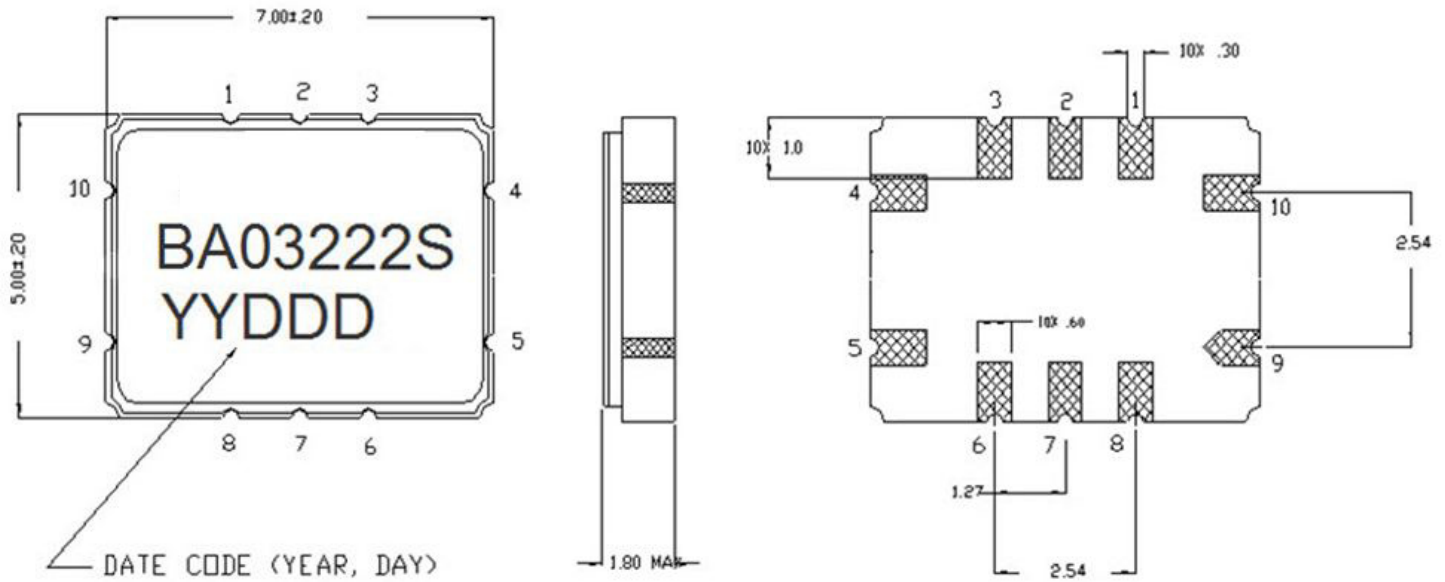
Ls1 = 150 nH

Ls2 = 180 nH

Notes:

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

PACKAGE OUTLINE



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

PAD 9 = RF INPUT
 PAD 10 = RF INPUT RETURN
 PAD 4 = RF OUTPUT
 PAD 5 = RF OUTPUT RETURN
 PAD 1, 2, 3, 6, 7, 8 = GROUND

DIMENSIONS ARE IN mm.

SUGGESTED FOOTPRINT

