

SAW Filter

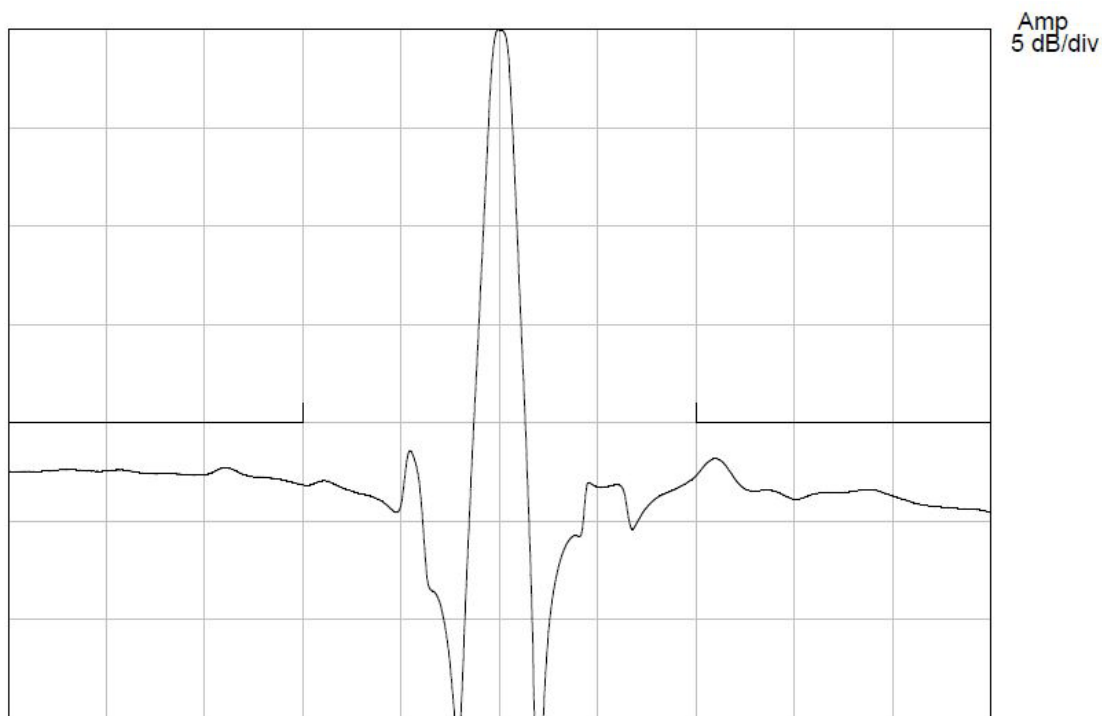
1060 MHz SAW Filter, 700 kHz Bandwidth



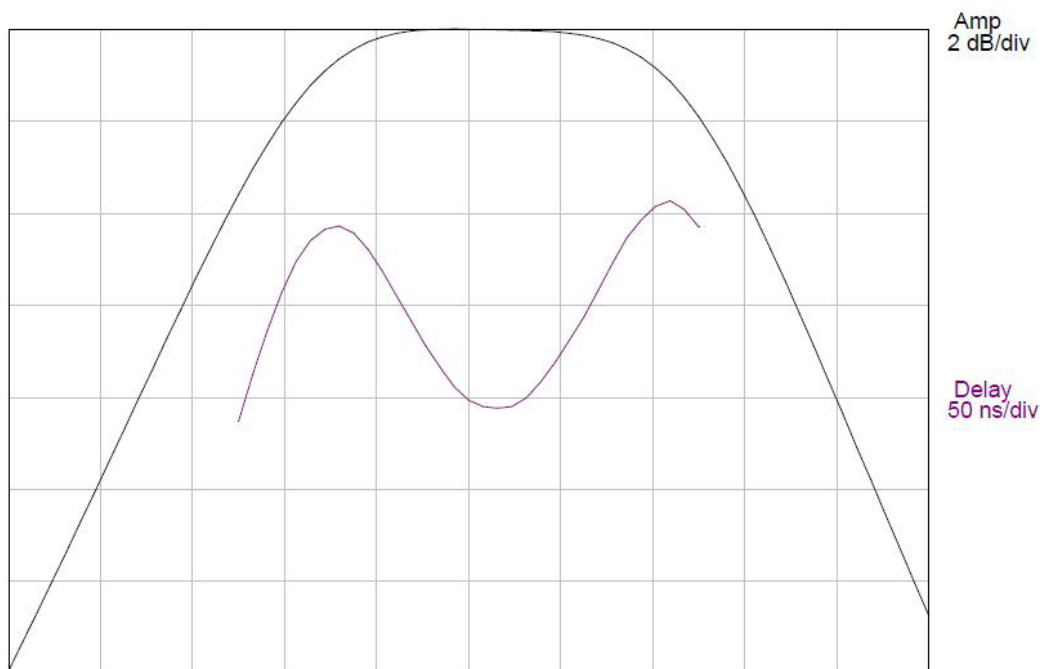
- 3 x 3 mm LCC, 6 Pads
- RoHS Compliant

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 = 1060 MHz, 5 MHz/div (31.3 kHz incr)



Center = 1060 MHz, 0.2 MHz/div (31.3 kHz incr)

SPECIFICATION

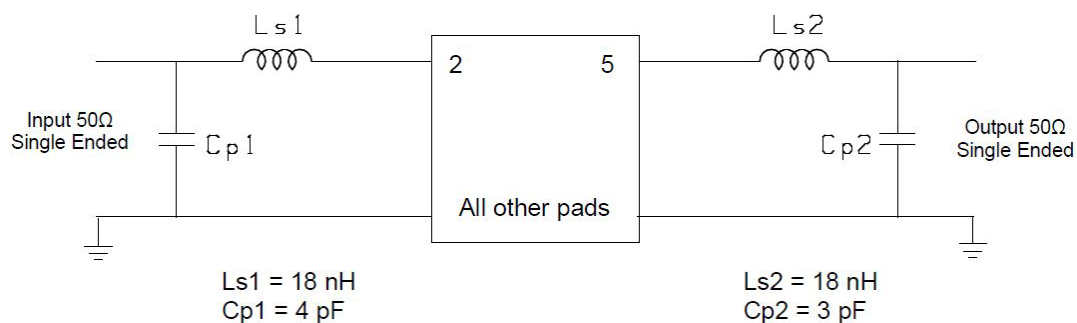
At +25 °C Ambient				
Parameter	Min	Typ	Max	Units
Center Frequency, Fc	1059.7	1060	1060.3	MHz
Insertion Loss at Response Peak	-	5	6.5	dB
1 dB Bandwidth ¹	700	750	-	kHz
3 dB Bandwidth ¹	-	1000	-	kHz
20 dB Bandwidth ¹	-	2.8	-	MHz
Absolute Delay at Fc	-	20	-	ns
Ultimate Rejection, 500 MHz to 1040 MHz ¹	20	22	-	dB
Ultimate Rejection, 1080 MHz to 1500 MHz ¹	20	21	-	dB
At Other Temperatures				
Shift of Response Over Operating Temperature Range ²	-105	-	+65	kHz

Notes: 1. Levels in dB are taken relative to the response peak.
2. The center frequency varies quadratically with temperature, becoming a maximum at -14 °C

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-40	+50	°C
Input Power Level	-	+10	dBm

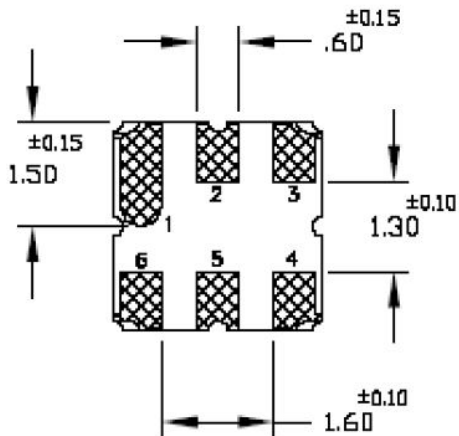
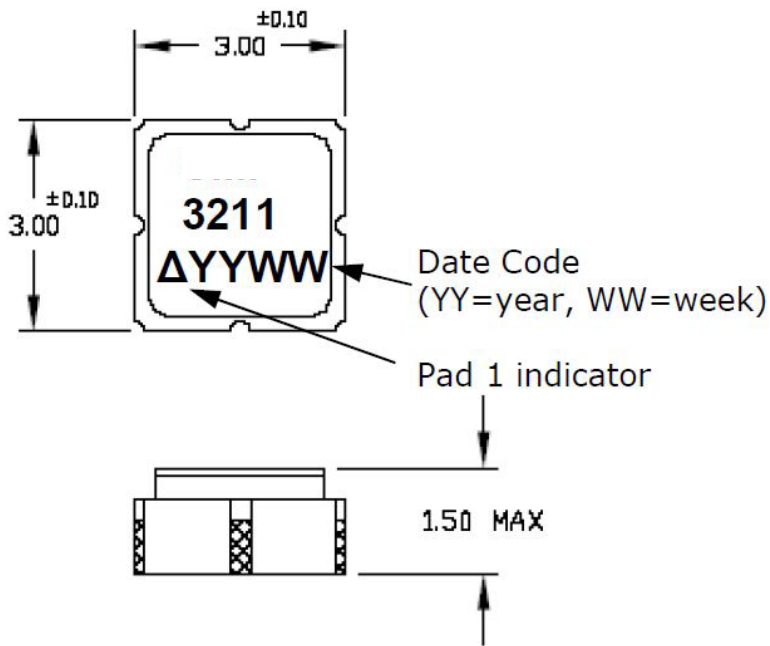
MATCHING CIRCUIT



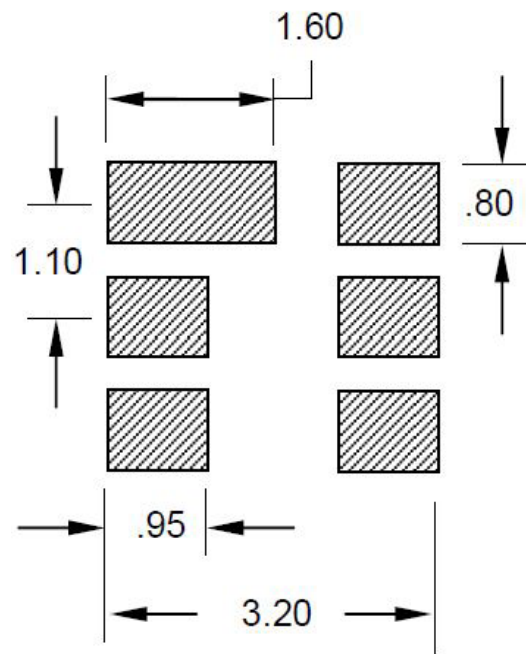
Notes:

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

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 2
Output: 5
Ground: 1, 3, 4, 6

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