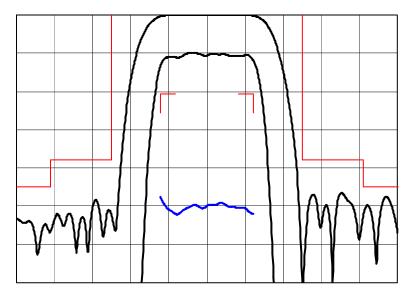
## **DESCRIPTION**

240 MHz high performance IF SAW Filter in 24.6 x 9 mm LCC package for CDMA 1x Base Station applications.

## **TYPICAL PERFORMANCE**



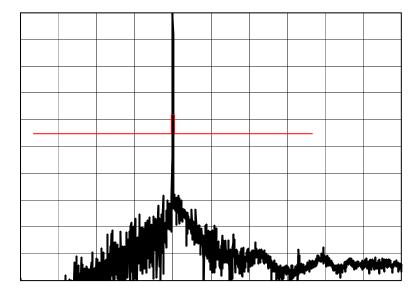
Horizontal: 0.5 MHz/div Vertical (fi

Vertical (from top):

Magnitude 10 Magnitude 1

10 dB/div 1 dB/div

Phase Deviation 4 deg/div



Horizontal: Start 0 MHz Stop 600 MHz Vertical: 10 dB/div

## **SPECIFICATION**

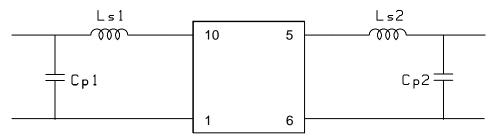
Parameter	Min	Тур	Max	Units
Center Frequency F <sub>C</sub> <sup>1</sup>		240		MHz
Insertion Loss at F <sub>C</sub>		12.7	16	dB
1dB Bandwidth <sup>2</sup>	1.23	1.40		MHz
10dB Bandwidth <sup>2</sup>		1.87		MHz
38dB Bandwidth <sup>2</sup>		2.29	2.5	MHz
45dB Bandwidth <sup>2</sup>		2.35	4.1	MHz
Passband Ripple, F <sub>C</sub> +/- 0.615 MHz		0.15	1	dB p-p
Phase Linearity, F <sub>C</sub> +/- 0.615 MHz		2	8	deg p-p
Stopband Rejection, F <sub>C</sub> +/- 1.25 MHz to F <sub>C</sub> +/- 2.05 MHz	38	46		dB
Stopband Rejection, F <sub>C</sub> +/- 2.05 MHz to F <sub>C</sub> +/- 220 MHz	45	47.5		dB
Absolute Delay		3.04		μs
Return Loss, F <sub>C</sub> +/- 0.615 MHz	10	15		dB
Return Loss, F <sub>C</sub> +/- 0.615 MHz	10	18		dB
Operating Temperature	-10	25	+85	°C

All electrical specifications apply across the full operating temperature range.

Notes:

- 1. Defined as the average of the lower and upper 10dB frequencies.
- 2. dB levels are defined relative to the loss at F<sub>C</sub>.

# **MATCHING CIRCUIT**



Typical component values:

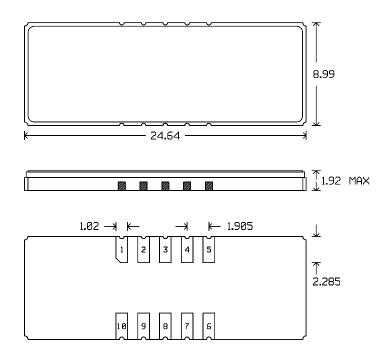
Ls1 = 52 nH Ls2 = 56 nH   
Cp1 = 29 pF 
$$Cp2 = 27 pF$$

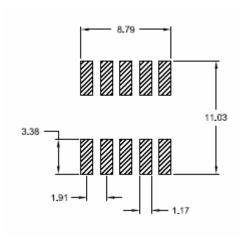
#### Notes:

- 1. These are the values of the tuning components used in the ICS test fixture to match to 50 ohm.
- 2. Component values may change depending on board layout.

ISO 9001 Registered

## PACKAGE OUTLINE AND SUGGESTED PAD LAYOUT





Units: mm

# **Pin Configuration:**

Input: 10
Input Return: 1
Output: 5
Output Return: 6

Ground: All others

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