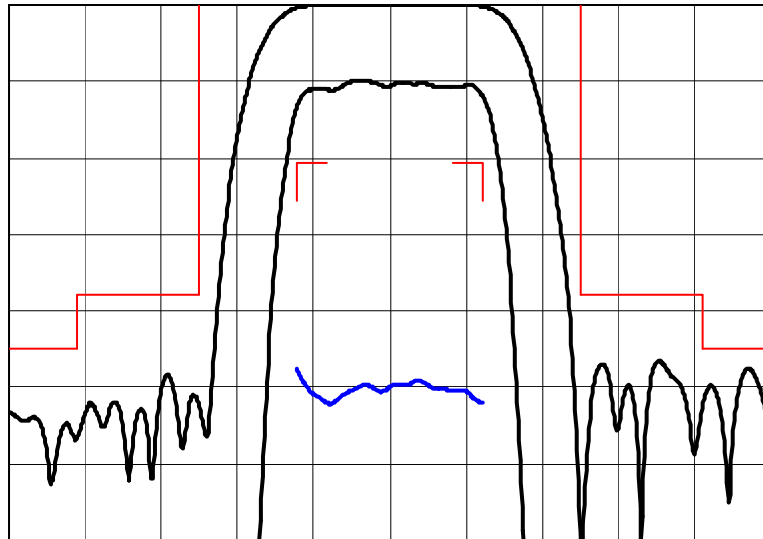




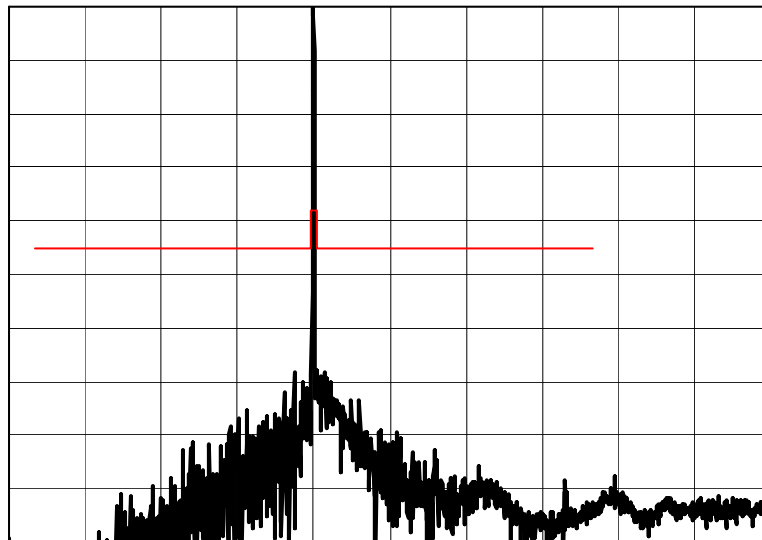
DESCRIPTION

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 (from top):
 Magnitude 10 dB/div
 Magnitude 1 dB/div
 Phase 4 deg/div
 Deviation



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



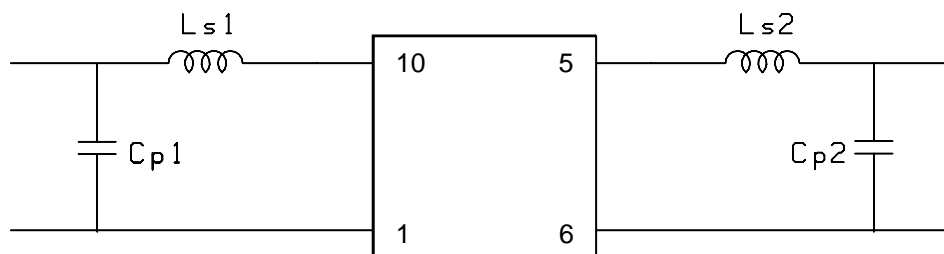
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency F_C ¹		240		MHz
Insertion Loss at F_C		12.7	16	dB
1dB Bandwidth ²	1.23	1.40		MHz
10dB Bandwidth ²		1.87		MHz
38dB Bandwidth ²		2.29	2.5	MHz
45dB Bandwidth ²		2.35	4.1	MHz
Passband Ripple, $F_C \pm 0.615$ MHz		0.15	1	dB p-p
Phase Linearity, $F_C \pm 0.615$ MHz		2	8	deg p-p
Stopband Rejection, $F_C \pm 1.25$ MHz to $F_C \pm 2.05$ MHz	38	46		dB
Stopband Rejection, $F_C \pm 2.05$ MHz to $F_C \pm 220$ MHz	45	47.5		dB
Absolute Delay		3.04		μ s
Return Loss, $F_C \pm 0.615$ MHz	10	15		dB
Return Loss, $F_C \pm 0.615$ MHz	10	18		dB
Operating Temperature	-10	25	+85	$^{\circ}$ 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_C .

MATCHING CIRCUIT



Typical component values:

$$\begin{aligned} L_{s1} &= 52 \text{ nH} & L_{s2} &= 56 \text{ nH} \\ C_{p1} &= 29 \text{ pF} & C_{p2} &= 27 \text{ pF} \end{aligned}$$

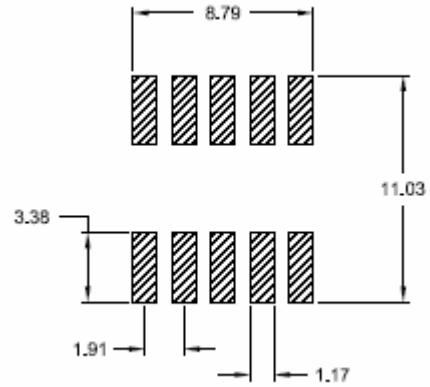
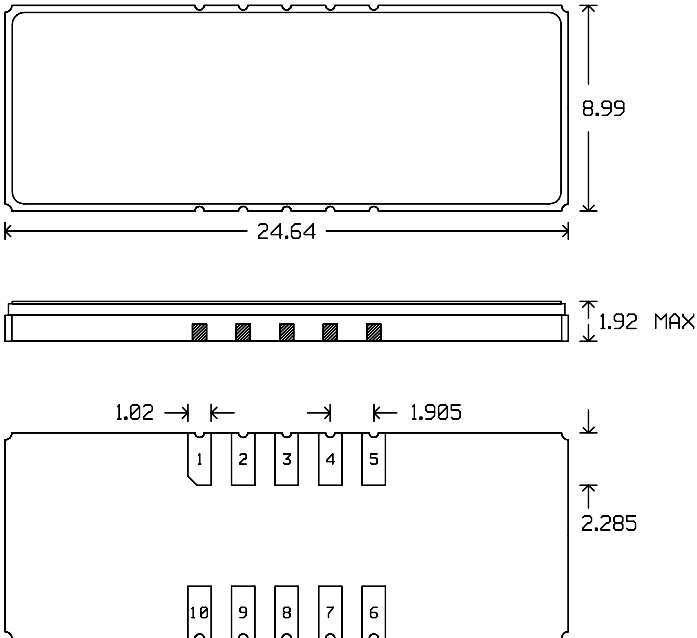
Notes:

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

All specifications are believed to be accurate and reliable. However, ICS reserves the right to make changes without notice.
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