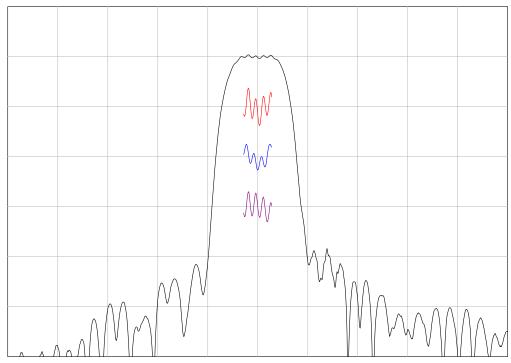
DESCRIPTION

- 70 MHz SAW bandpass filter with 1.5 MHz bandwidth.
- 13.3 x 6.5 mm SMP.
- RoHS compliant.

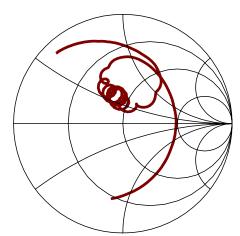
TYPICAL PERFORMANCE



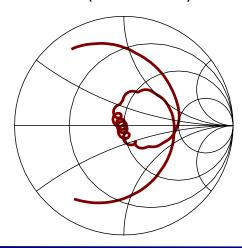
Horizontal: Vertical from Top:

Frequency: 1.6 MHz/div
Relative Magnitude: 10 dB/div
Relative magnitude: 1 dB/div
Phase Linearity: 12 deg/div
Group Delay Deviation: 500 ns/div

S11 (200Ω balanced)



S22 (200Ω balanced)



SPECIFICATION

Parameter	Min	Тур	Max	Units
Center Frequency (Fc) 1	69.90	70.00	70.10	MHz
Insertion Loss	-	9.2	9.7	dB
1 dB Bandwidth	1.00	1.34	65.4	MHz
3 dB Bandwidth	1.50	1.69	-	MHz
36 dB Bandwidth	-	3.10	3.30	MHz
Passband Ripple ²	-	8.0	1	dB p-p
Phase Deviation from Linear ²	-	6.5	8	deg p-p
Group Delay Variation ²	-	320	425	ns p-p
Absolute Delay	-	2.1	-	us
System Source and Load Impedance, Balanced	-	200	-	Ω
Temperature Coefficient of Frequency (Tc) 3	-	-23	-	ppm/°C
Ambient Temperature (T _{ref})	-	25	-	°C

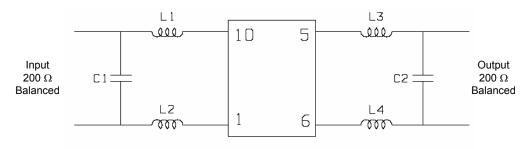
Notes

- 1. Average of lower and upper 3 dB frequencies.
- 2. Evaluated over 60% of the 3 dB bandwidth.
- 3. Typical change of filter frequency response with temperature is $\Delta f = (T-Tref) * Tc * Fc$, in ppm.

MAXIMUM RATINGS

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

MATCHING CIRCUIT



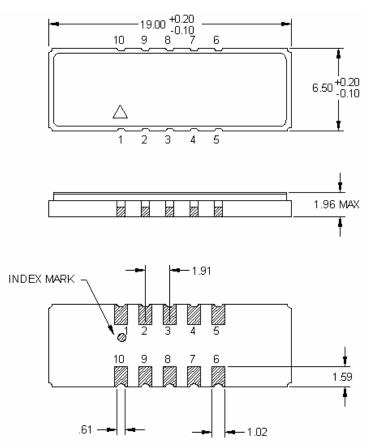
Typical component values:

(Minimum inductor Q = 45)

Notes:

- 1. Recommend use of 2% tolerance matching components.
- 2. Component values shown are for guidance only and may change depending on board layout.

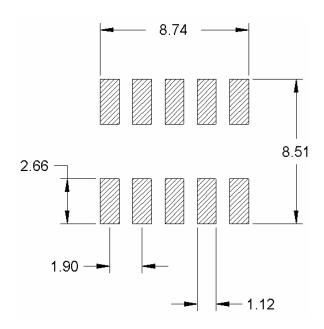
PACKAGE OUTLINE



Package Material: Body: Al_2O_3 ceramic Lid: Kovar, Ni plated Terminations: Au plating 1

Terminations: Au plating 1 μ m min, over a 1.3-8.9 μ m Ni plating

SUGGESTED FOOTPRINT



Units: mm

Tolerances are ± 0.15 mm except for the overall length and width, which are nominal values.

Pad Configuration:

Inputs: 10,1 Outputs: 5,6 Ground: 2,3,4,7,8,9

> ISO 9001 Registered

All specifications are believed to be accurate and reliable. However, MNC reserves the right to make changes without notice. © 2006 All rights reserved.