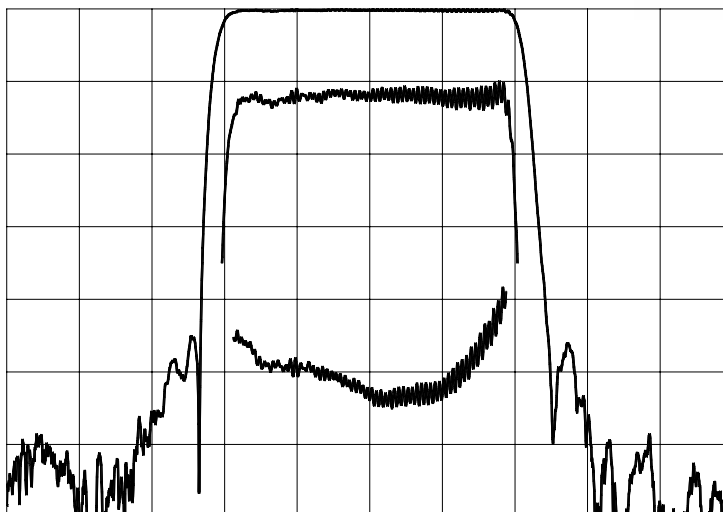


TYPICAL PERFORMANCE

PRELIMINARY



Horizontal: 8 MHz/div

Vertical (from top):

Magnitude

10 dB/div

Magnitude

1 dB/div

Phase Deviation

5 deg/div

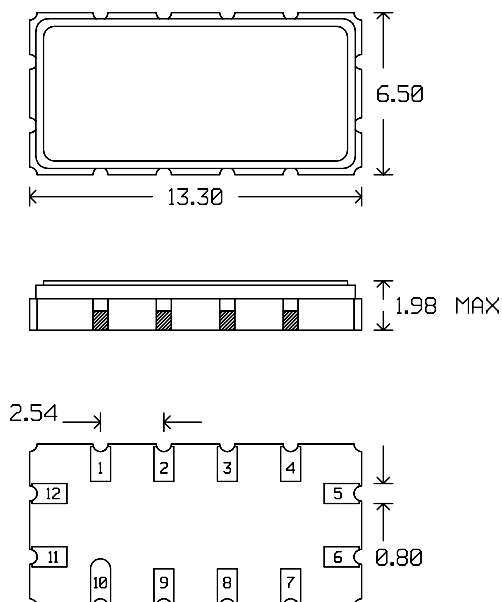
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹		87.5		MHz
Insertion Loss ^{2,5}		16	18	dB
Lower 1 dB Frequency ⁴		71.7	72.5	MHz
Upper 1 dB Frequency ⁴	102.5	103.4		MHz
Passband Ripple ^{6,4}		0.6	1.0	dB
Passband Ripple, extended temperature range ^{3,5}			1.5	dB
Phase Deviation from Linear ^{3,5}		9	14	deg
Lower 40 dB Frequency ⁴	67.5	68.9		MHz
Upper 40 dB Frequency ⁴		106.9	107.5	MHz
Lower 38 dB Frequency ⁵	67.5	69.0		MHz
Upper 38 dB Frequency ⁵		106.7	107.5	MHz
Absolute Delay		1.0	1.2	μs
Operating Temperature Range	0		70	°C
Extended Operating Temperature Range	-20		85	°C
System Source and Load Impedance		50		Ω

- Notes:
1. Average of lower & upper 3 dB frequencies (3 dB measured from peak).
 2. Measured at 87.5 MHz.
 3. Evaluated over 87.5 ± 15 MHz.
 4. Limit met over operating temperature range.
 5. Limit met over extended operating temperature range.
 6. Evaluated over 87.5 ± 14.5 MHz

PACKAGE OUTLINE

PRELIMINARY

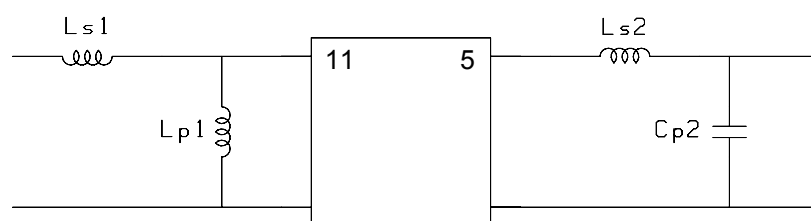


Units: mm

Pin Configuration:

Input: 11
 Output: 5
 Ground: 1,2,3,4,6,7,8,9,10,12

MATCHING CIRCUIT



Component values in 50 Ω :
 (Minimum Q = 45)

$L_{p1} = 91$ nH
 $L_{s1} = 100$ nH

$L_{s2} = 120$ nH
 $C_{p2} = 22$ pF

Notes

- Optimum component values may change depending on board layout. The values shown here are intended as a guide only.
- Requires 2% matching components.

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