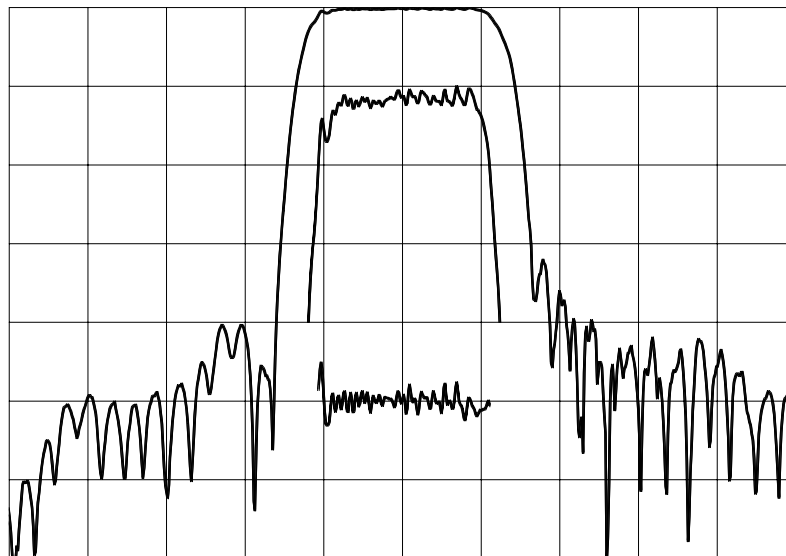




DESCRIPTION

280 MHz SAW bandpass filter in a 5x5 mm SMD package with > 17 MHz usable bandwidth for broadband access applications.

TYPICAL PERFORMANCE



Horizontal: 10 MHz/div

Vertical (from top):

Magnitude
Group Delay Variation

10,1 dB/div
50 ns/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Measured Center Frequency (Fc)	279.5	280.0	280.5	MHz
Insertion Loss	-	8.6	10	dB
Amplitude Ripple ¹	-	0.4	1	dB p-p
Group Delay Variation ¹	-	25	50	ns p-p
3 dB Bandwidth	20	24.3	-	MHz
10 dB Bandwidth	-	27.9	30	MHz
15 dB Bandwidth	-	29.2	34	MHz
40 dB Bandwidth	-	-	200	MHz
Rejection				
30 to Fc-100 MHz	40	54	-	dB
Fc-100 to Fc-17 MHz	15	38	-	dB
Fc-17 to Fc-15 MHz	10	23	-	dB
Fc+15 to Fc+17 MHz	10	15	-	dB
Fc+17 to Fc+100 MHz	15	31	-	dB
Fc+100 to 500 MHz	40	54	-	dB
Temperature Coefficient of Frequency (Tc)	-	-90	-	ppm/°C
System Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	25	-	°C

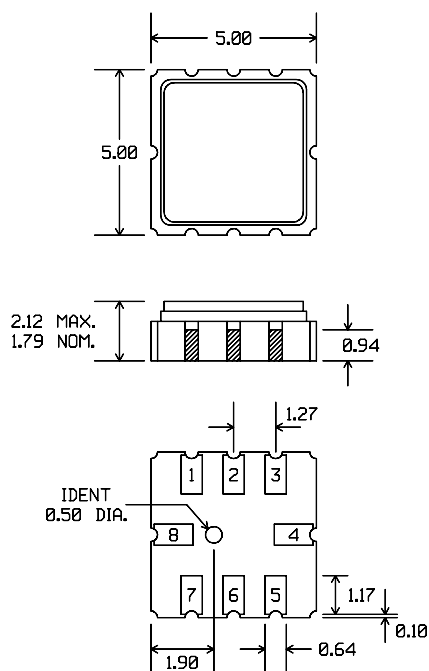
Notes: 1. Evaluated over 271.5-288.5 MHz.

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PACKAGE OUTLINE

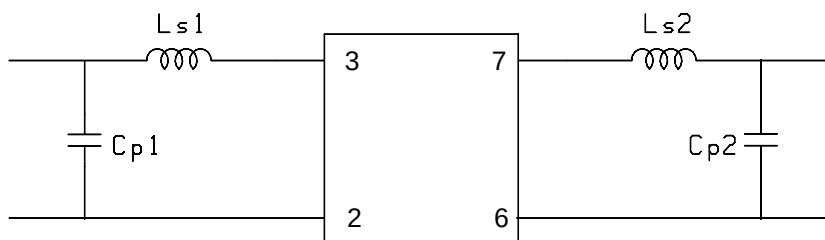


Units: mm

Pin Configuration:

Input:	3
Input Return:	2
Output:	7
Output Return:	6
Ground:	1,4,5,8

MATCHING CIRCUIT



Typical component values:

Ls1 = 58 nH
Cp1 = 17 pF

Ls2 = 52 nH
Cp2 = 13 pF

Notes

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

ISO 9001
Registered