

1234.4 MHz SAW Filter

188883-101

Features

- Low Cost
- High Reliability

Specifications

Parameter	Unit	Min	Typ	Max
Centre Frequency, f_0	MHz		1234.4	
Passband Insertion Loss, IL	dB			4.5
Passband 1.5dB bandwidth ^[1]	MHz	45		
Lower 1.5dB Band Edge ^[1]	MHz	-	-	1211.9
Upper 1.5dB Band Edge ^[1]	MHz	1256.9	-	-
Amplitude Ripple ^[2]	dB p-p			1.5
Out-Of-Band Attenuation				
10 – 1088MHz		45	50	
1088 – 1178MHz		36	41	
1297 – 1387MHz	dB	38	43	
1387 – 2000MHz		30	35	
2000 – 3000MHz		35	40	
Group Delay Ripple	ns p-p		14	25
Group Delay linearity	ns		5	15
Group Delay linearity matching	ns		2.5	10
Operating Temperature Range	°C	-40		85
Input Impedance (single ended)	Ω	50		
Output Impedance (single ended)	Ω	50		
Impedance Matching		See matching circuit detail		
Package	mm	SMT 3.8x3.8x1.3		

Notes:

[1] Referenced to the insertion loss at center frequency.

[2] Excluding the rolling off at the edge of pass band.

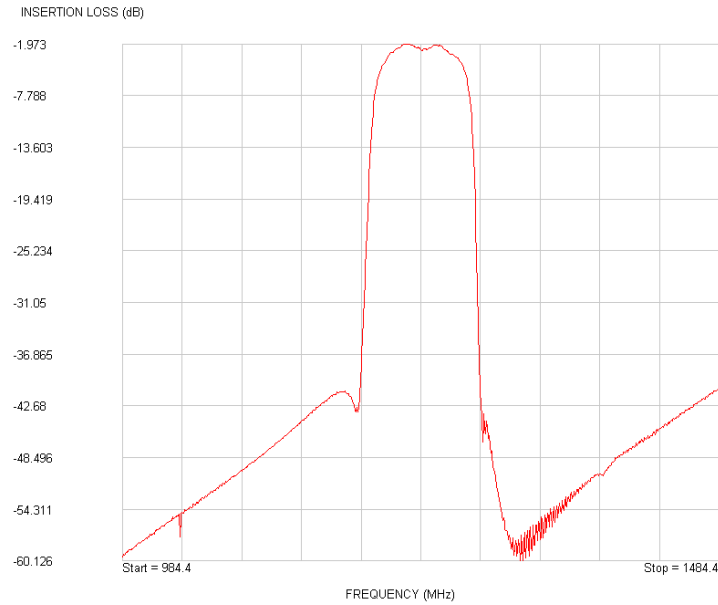
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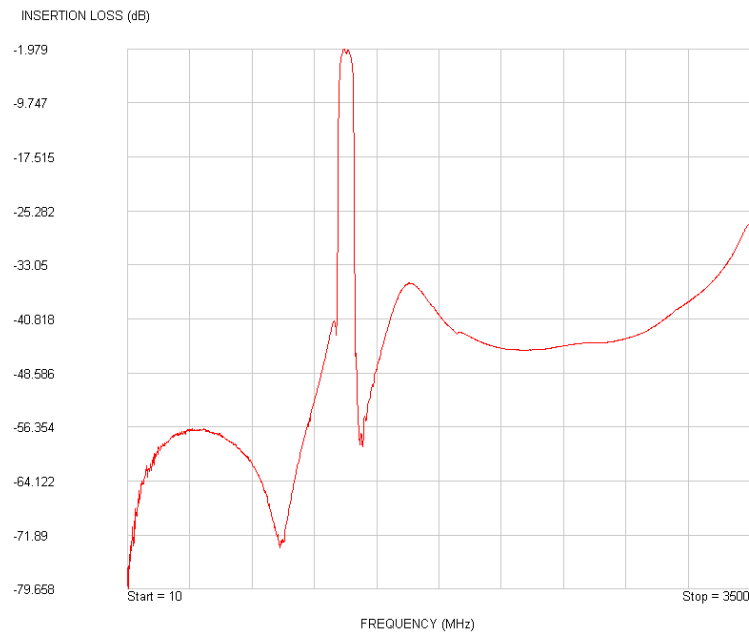
SAW PRODUCTS

Typical Measured Performance Data

Narrow Band Performance



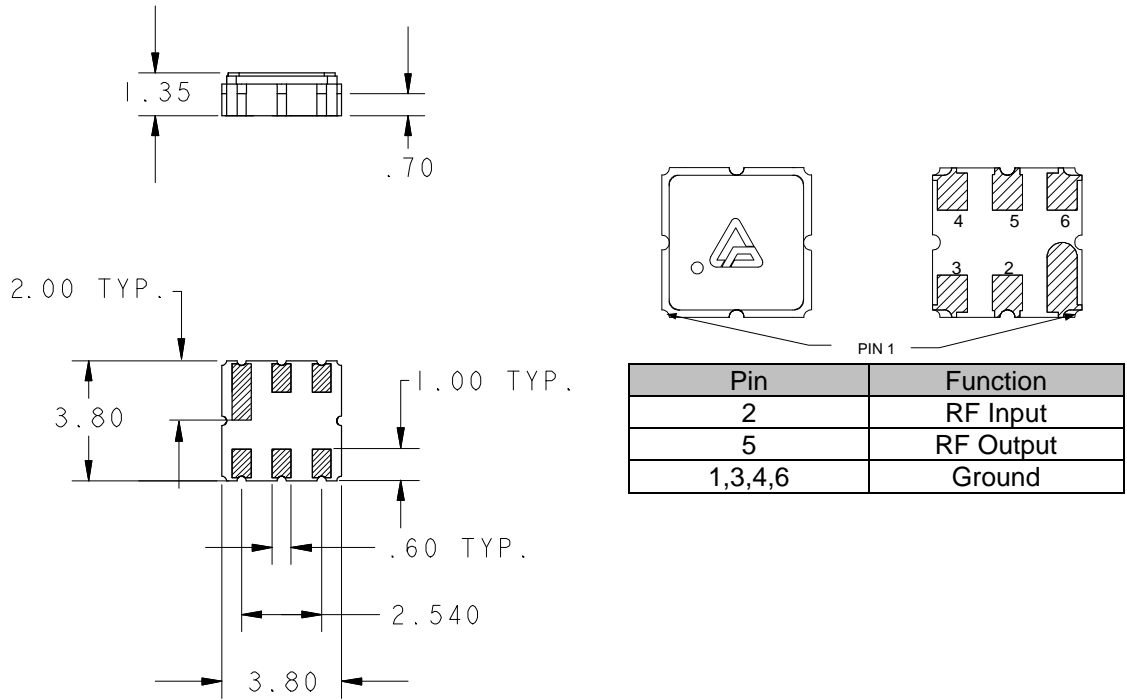
Wide Band Performance



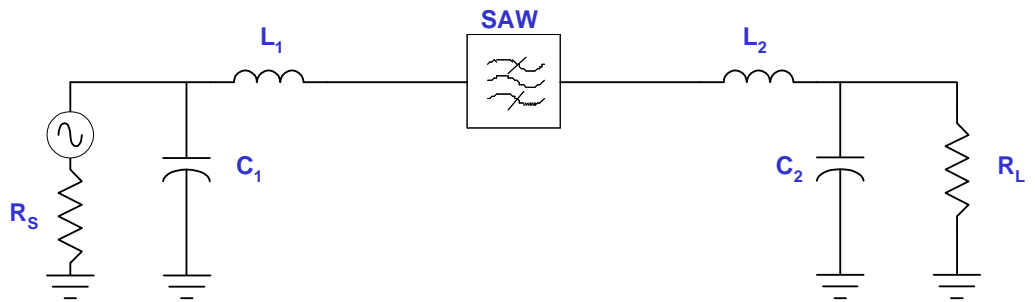
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Package Outline



Matching Circuit



Single Ended Input	Single Ended Output
$R_S = 50 \Omega$	$R_L = 50 \Omega$
$L_1 = 4.5nH$	$L_2 = 4.5nH$
$C_1 = 3.3pF$	$C_2 = 3.3pF$

Note: Matching circuit is for COM DEV evaluation PCB. Matching circuit component value may be different on customer PCB.

COM DEV SAW PRODUCTS