SAWTEK INCORPORATED

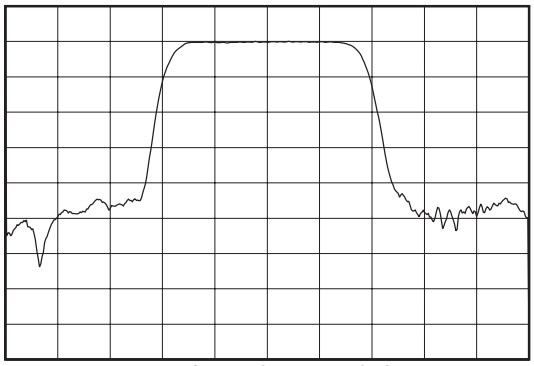
Data Sheet

Std Low-Loss 140 MHz Bandpass Filter

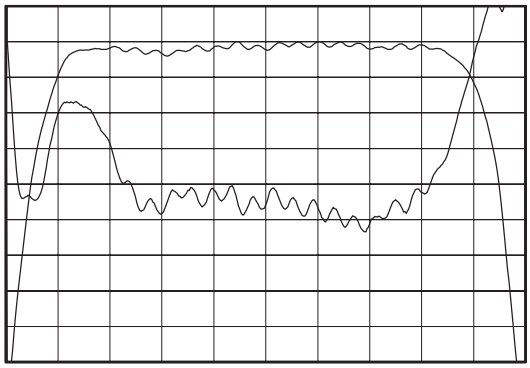
10 MHz Bandwidth

Part Number 854916

Typical Performance



Horizontal: 3 MHz/Div
Vertical: 10 dB/Div

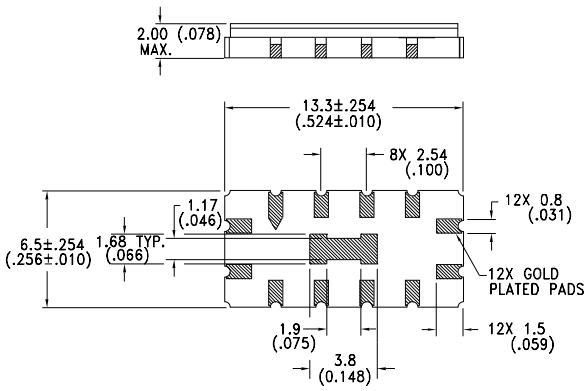


Horizontal: 1.2 MHz/Div
Vertical: 1 dB/Div
Vertical: 2 deg/Div

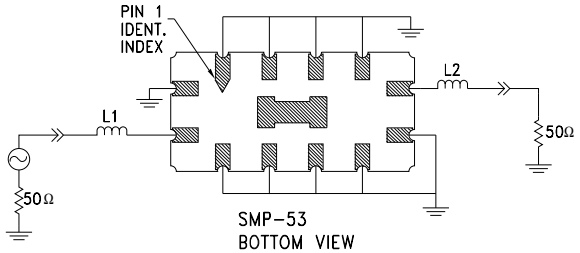
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency f_o	MHz	139.6	140	140.4
Insertion Loss @ f_o	dB	-	8.3	11
1 dB Bandwidth	MHz	8	9.6	-
3 dB Bandwidth	MHz	10	10.59	-
35 dB Bandwidth	MHz	-	13.9	15
Passband Ripple (80% of 3 dB BW)	dB	-	0.4	-
Phase Linearity (80% of 3 dB BW)	degrees	-	9	15
Delay Variation (80% of 3 dB BW)	nsec	-	50	120
Absolute Delay	µsec	-	1.062	-
Substrate Material	-	-	YZ $LiNbO_3$	-
Temperature Shift	ppm/°C	-	-94	-
Ambient Temperature	°C	-	25	-

Package Outline



Matching Configuration



L1 = 56 nH , L2 = 33 nH
Nominal Source/Load Impedance = 50Ω
Package Style SMP-53

12/2/99

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