SAWTEK INCORPORATED

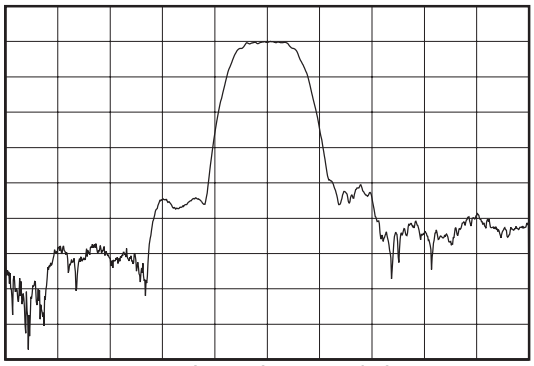
Data Sheet

70 MHz Bandpass Filter

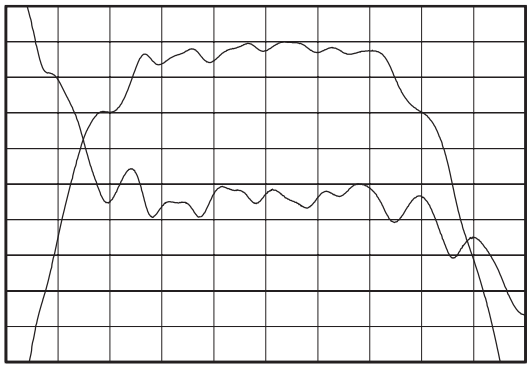
3 MHz Bandwidth

Part Number 854656

Typical Performance



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

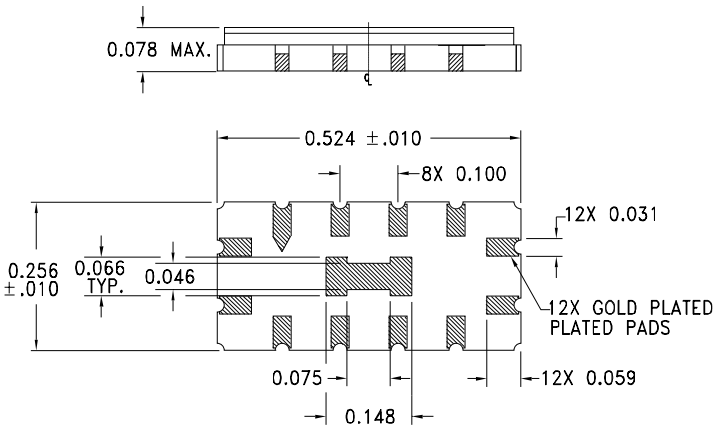


Horizontal: 500 kHz/Div
Vertical: 1 dB/Div
Vertical: 4 deg/Div

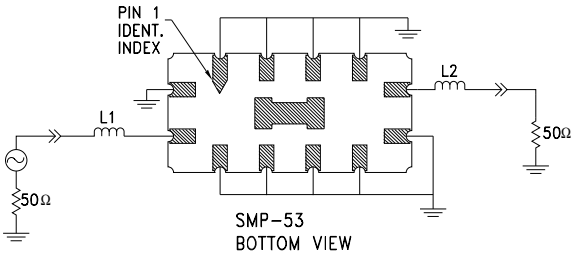
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.85	70	70.15
Insertion Loss at F_o	dB	-	6.95	7.5
1 dB Bandwidth	MHz	2.3	2.6	-
3 dB Bandwidth	MHz	3	3.5	-
35 dB Bandwidth	MHz	-	6.9	7.5
Passband Ripple	dB	-	0.65	1
Phase Linearity (70% of 3dB Bandwidth)	deg	-	3	5
Group Delay Variation (70% of 3dB Bandwidth)	nsec	-	115	175
Absolute Delay	µsec	-	0.94	-
Substrate Material	-	-	YZ $LiNbO_3$	-
Temperature Coefficient	ppm/°C	-	-94	-
Ambient Temperature	°C	-	25	-

Package Outline



Matching Configuration



L1 = 220nH, L2 = 82nH
Nominal Source/Load Impedance = 50Ω
Package Style SMP-53

11/24/99

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