SAWTEK INCORPORATED

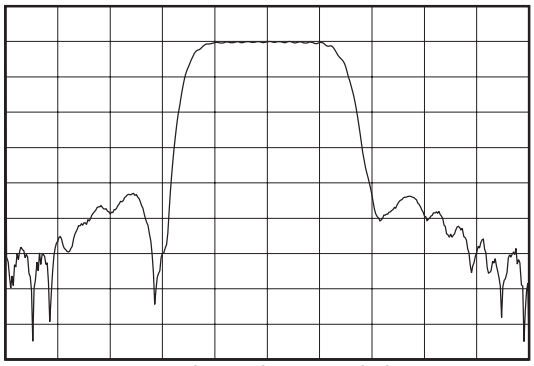
190 MHz Bandpass Filter

4 MHz Bandwidth

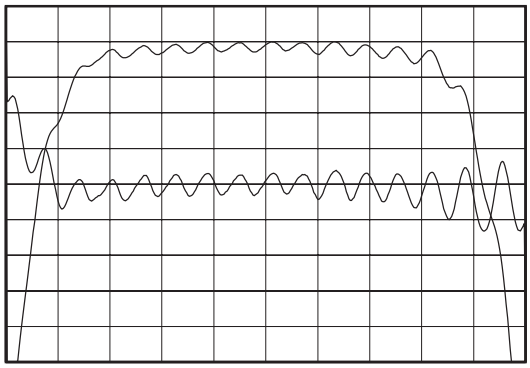
Part Number 855529

Preliminary Specifications

Typical Performance



Horizontal: 2 MHz/Div
Vertical: 10 dB/Div

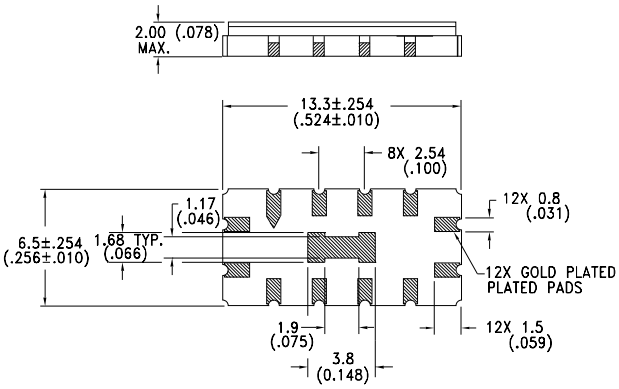


Horizontal: 650 kHz/Div
Vertical: 1 dB/Div
Vertical: 120 nsec/Div

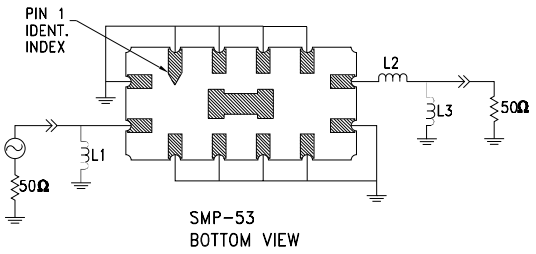
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	190	-
Insertion Loss @ 190 MHz	dB	-	9.8	12
1 dB Lower Frequency	MHz	-	187.58	187.85
1 dB Upper Frequency	MHz	192.15	192.26	-
10 dB Lower Frequency	MHz	186.6	186.84	-
10 dB Upper Frequency	MHz	-	193.07	193.4
30 dB Lower Frequency	MHz	186.2	186.42	-
30 dB Upper Frequency	MHz	-	193.59	193.8
Passband Variation (187.9 - 192.1 MHz)	dB p-p	-	0.49	1
Group Delay Ripple (187.9 - 192.1 MHz)	nsec	-	74	200
Substrate Material	-	-	$LiTaO_3$	-
Temperature Coefficient	ppm/°C	-	$\Delta F/F=-[(T-T_0)/5.4]^2$	-
Ambient Temperature	°C	-	25	-

Package Outline



Matching Configuration



L1= 22 nH, L2=10 nH, L3= 27,nH
Nominal Source/Load Impedance = 50Ω
Package Style SMP-53 11/10/99

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