SAWTEK INCORPORATED

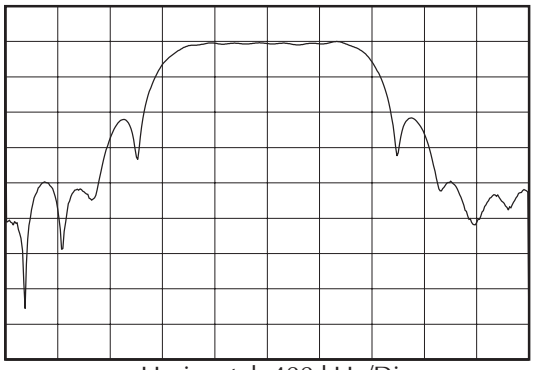
Data Sheet

167.100 MHz Bandpass Filter

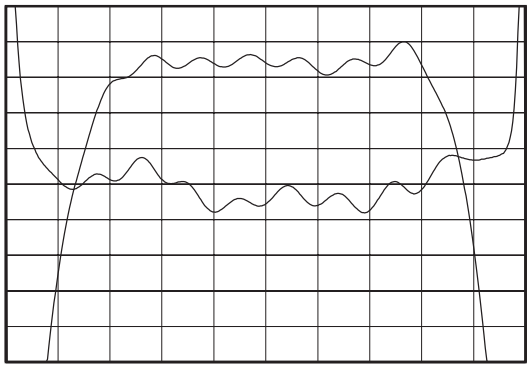
1.180 MHz Bandwidth

Part Number 855394

Typical Performance



Horizontal: 400 kHz/Div
Vertical: 10 dB/Div



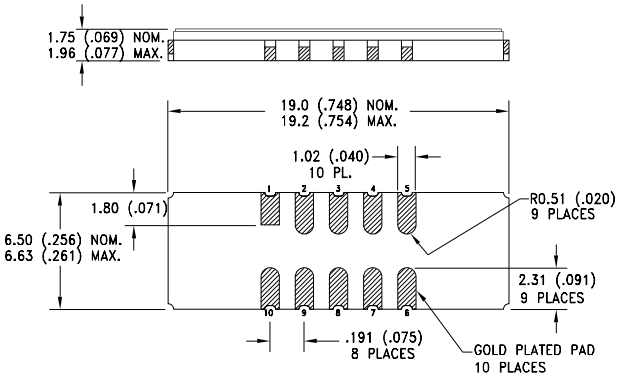
Horizontal: 200 kHz/Div
Vertical: 1 dB/Div
Vertical: 5 deg/Div

Specifications

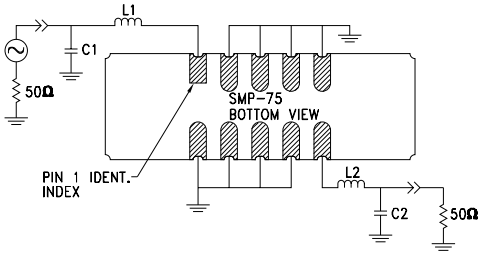
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	167.1	-
Insertion Loss @167.1 MHz (REF)	dB	-	10.9	15
5 dB Lower Frequency	MHz	-	166.338	166.51
5 dB Upper Frequency	MHz	167.69	167.909	-
15 dB Lower Frequency	MHz	166.1	166.203	-
15 dB Upper Frequency	MHz	-	168.032	168.1
Amplitude Variation (166.575 to 167.625) MHz	dB p-p	-	0.79	1.5
Group Delay (166.575 to 167.625) MHz	µsec	2.44	2.545	2.64
Group Delay Ripple (166.575 to 167.625) MHz	nsec	-	320	500
Phase Linearity (166.47 to 167.73) MHz	deg RMS	-	1.4	4
Substrate Material			Quartz	
Operating Temperature Range	°C	0	25	85

Package Outline

Specifications subject to change or obsolescence without notice



Matching Configuration



L1 = 60 nH , L2 = 82 nH
C1 = 47pF , C2 = 47 pF
Nominal Source/Load Impedance = 50Ω
Package Style SMP-75 3/09/04

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