



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

100 MHz Saw Filter

Part Number: AM100S916



Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	99.95	100.0	100.50
Insertion Loss at Fo	dB	-	10.0	12.0
Passband Ripple within Fo ± 0.5 MHz	dB	-	0.30	0.50
Group Delay Ripple	nsec	-	150	300
Absolute Delay at Fo	usec	-	2.0	-
Bandwidth at 1.0 dB	MHz	-	0.28	-
Bandwidth at 3.0 dB	MHz	0.30	0.47	-
Bandwidth at 40.0 dB	MHz	-	1.30	1.70
Temperature Coefficient	ppm/°C	-	-0.03	-
Ultimate Attenuation	dB	45	50	-
Substrate Material	Quartz			

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-40	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Single Ended) ₁	Ω	-	50	-
Load Impedance (Single Ended) ₁	Ω	-	50	-

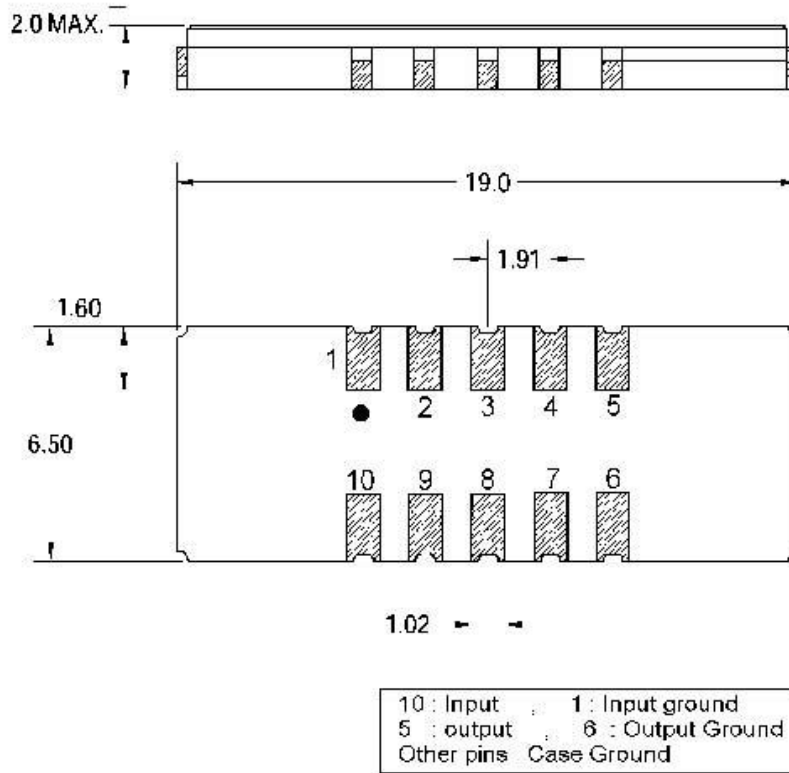


100 MHz Saw Filter

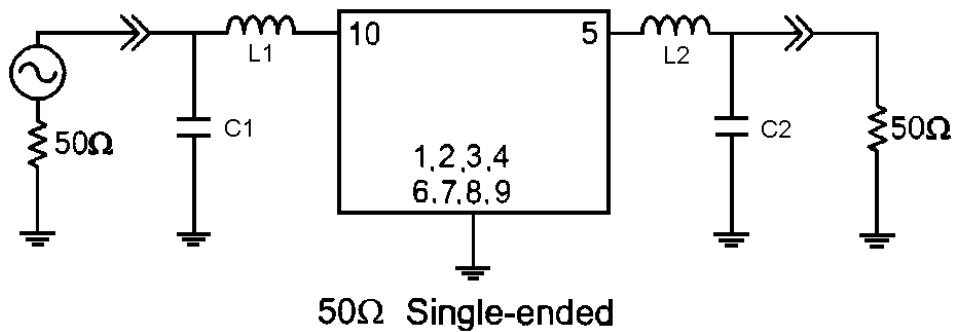
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Outline Drawing:



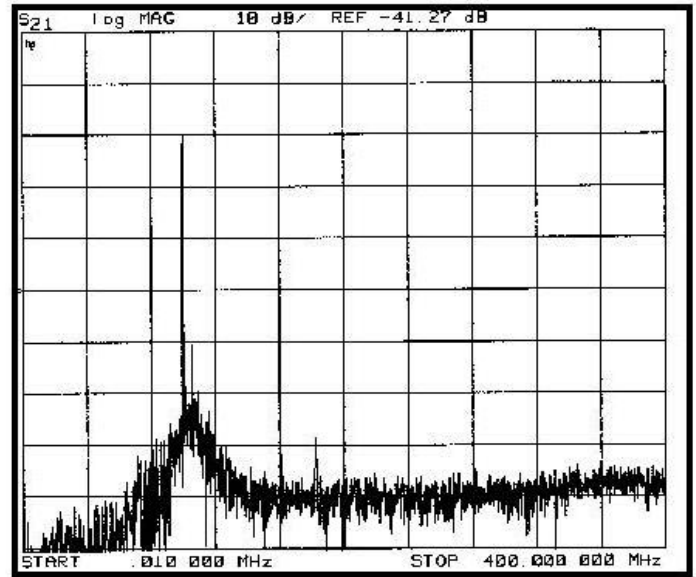
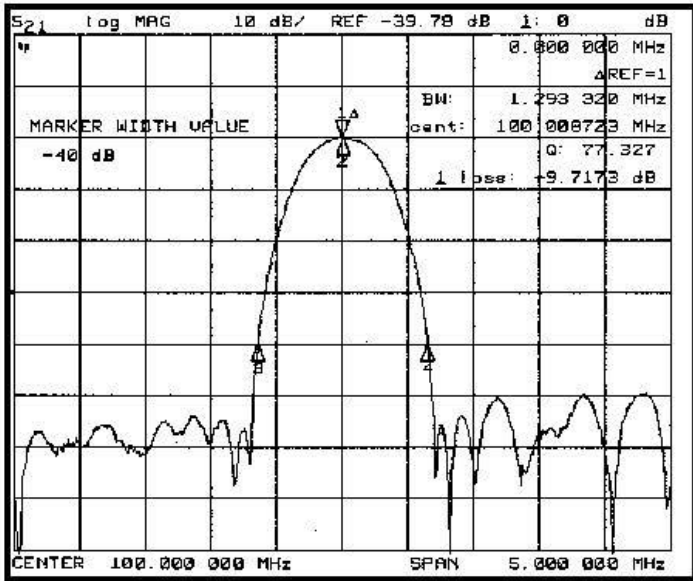
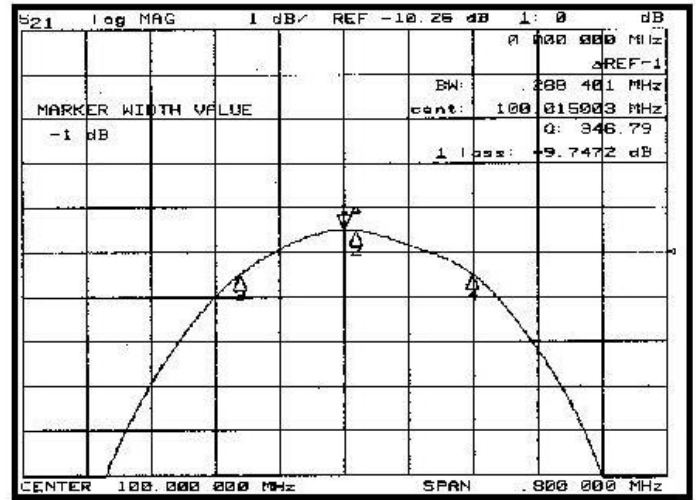
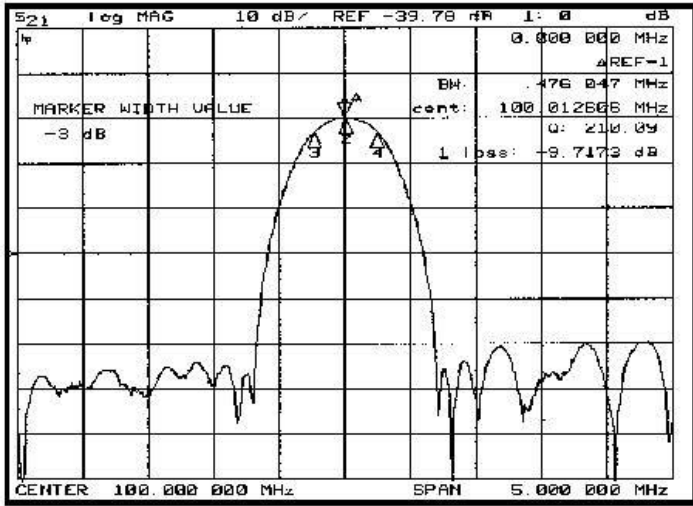
Testing Environment:



L1 = 0.18 nH L2 = 0.18 nH
C1 = 47 pF C2 = 47 pF
Ambient Temperature = 25°C



Frequency Response:





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Frequency Response:

