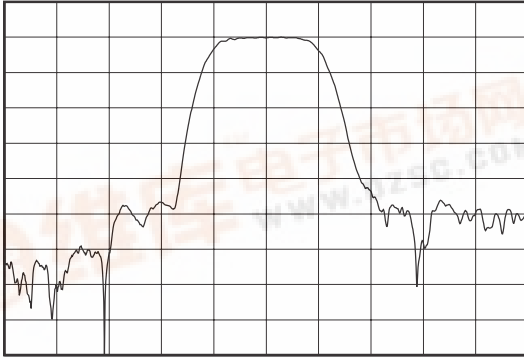




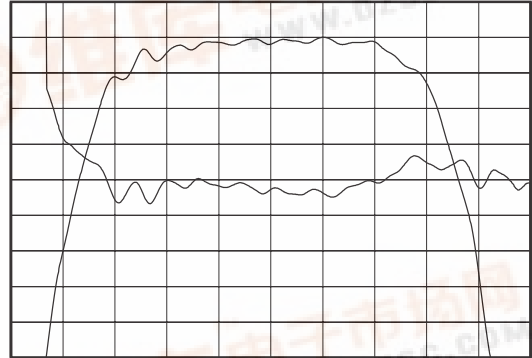
**70 MHz Low-Loss Filter**  
**4.5 MHz Bandwidth**  
**Part Number 854659**

Data Sheet

Typical Performance



Horizontal: 2.5 MHz/Div  
 Vertical: 10 dB/Div



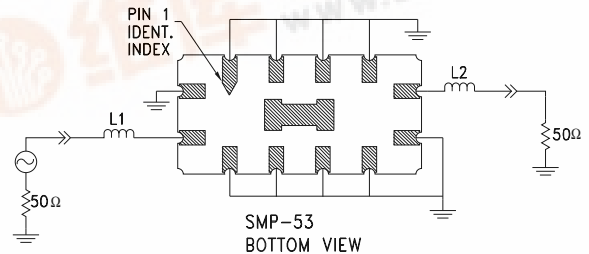
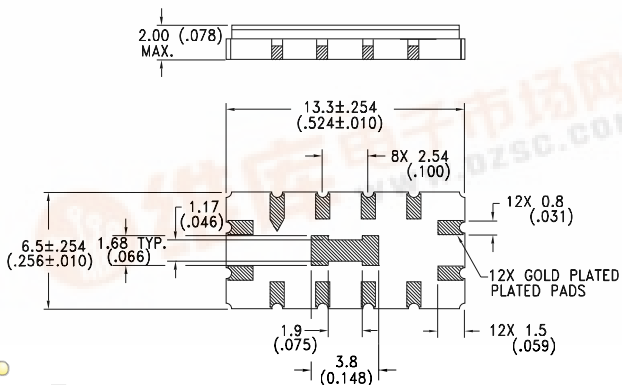
Horizontal: 700 kHz/Div  
 Vertical: 1 dB/Div  
 Vertical: 5 deg/Div

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.85	70	70.15
Insertion Loss at $F_o$	dB	-	6.8	7.5
1 dB Bandwidth	MHz	3.8	4.2	-
3 dB Bandwidth	MHz	4.5	4.9	-
35 dB Bandwidth	MHz	-	8.5	9.75
Passband Ripple	dB	-	0.6	1
Phase Linearity (70% of 3dB Bandwidth)	deg	-	4.5	6.5
Group Delay Variation (70% of 3dB Bandwidth)	nsec	-	115	180
Absolute Delay	µsec	-	0.95	-
Substrate Material	-	-	YZ LiNbO <sub>3</sub>	-
Temperature Coefficient	ppm/°C	-	-94	-
Ambient Temperature	°C	-	25	-

Package Outline

Matching Configuration



$L1 = 180\text{nH}$ ,  $L2 = 150\text{nH}$   
 Nominal Source/Load Impedance =  $50\Omega$   
 Package Style SMP-53

11/24/99