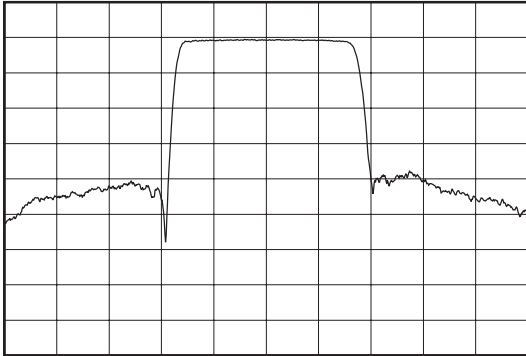
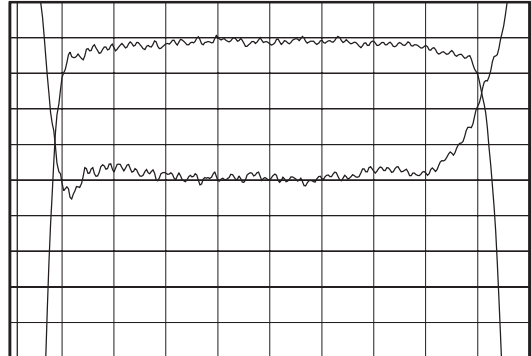


Data Sheet

**Typical Performance**



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

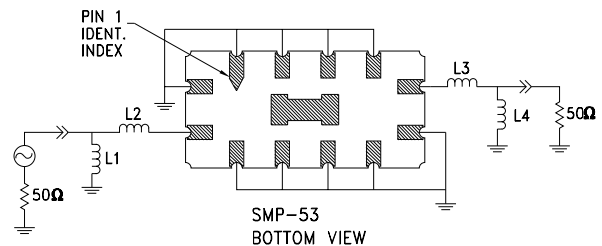
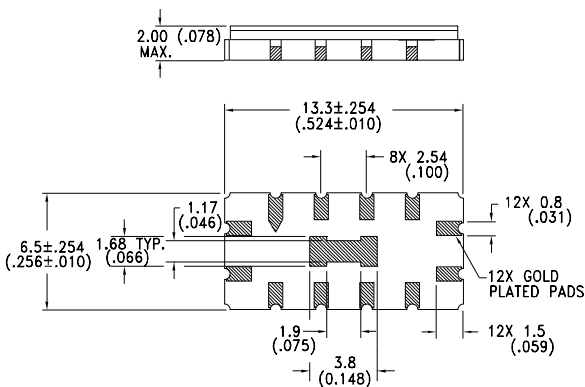


Horizontal: 4 MHz/Div  
Vertical: 1 dB/Div  
Vertical: 5 deg/Div

**Specifications**

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency $f_o$	MHz	-	140	-
Insertion Loss at $f_o$	dB	-	11.5	13
1 dB Bandwidth	MHz	30	32	-
3 dB Bandwidth	MHz	32	33.4	-
35 dB Bandwidth	MHz	-	38	44
Passband Ripple (80% of 3 dB Bandwidth)	dB	-	0.55	1.2
Phase Linearity (80% of 3 dB Bandwidth)	deg	-	6.1	14
Delay Variation (80% of 3 dB Bandwidth)	nsec	-	45	120
Absolute Delay	$\mu$ sec	-	0.75	-
Substrate Material	-	-	YZ LiNbO <sub>3</sub>	-
Temperature Shift	ppm/ $^{\circ}$ C	-	-94	-
Ambient Temperature	$^{\circ}$ C	-	25	-

**Package Outline      Matching Configuration**



L1 = 47 nH , L2 = 76 nH  
L3 = 68 nH , L4 = 47 nH  
Nominal Source/Load Impedance = 50 $\Omega$   
Package Style SMP 53

12/2/99