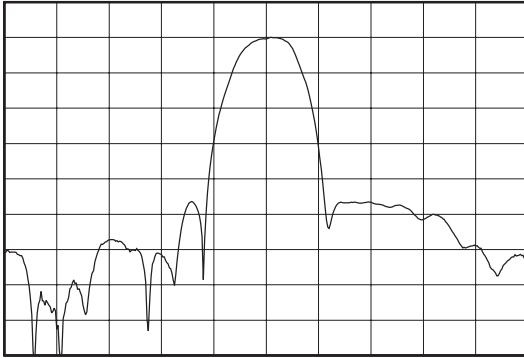
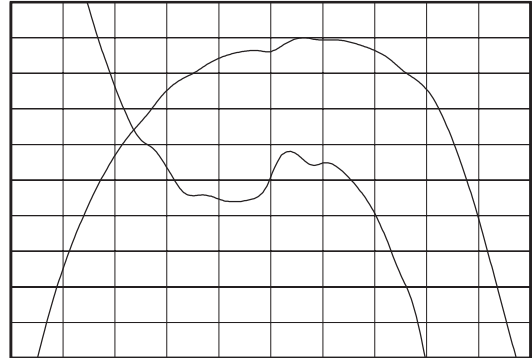


**Preliminary Specifications**

**Typical Performance**



Horizontal: 1 MHz/Div  
Vertical: 10 dB/Div

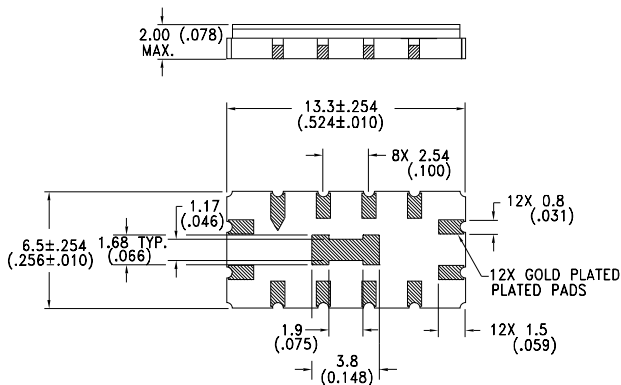


Horizontal: 140 kHz/Div  
Vertical: 1 dB/Div  
Vertical: 2 deg/Div

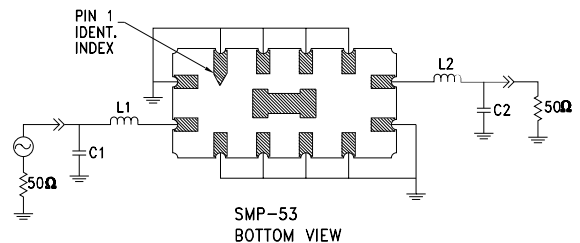
**Specifications**

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	211	-
Insertion Loss	dB	-	5.75	8
3 dB Lower Bandedge	MHz	-	210.56	210.6
3 dB Upper Bandedge	MHz	211.4	211.5	-
Attenuation @ $f_o \pm 630$ kHz	dB	6	8.1	-
Attenuation @ $f_o \pm 1.000$ MHz	dB	10	28.4	-
Absolute Delay	$\mu$ sec	-	1.383	-
Group Delay Ripple(210.850 to 211.150 MHz)	nsec	-	215	250
Rejection : $f_o \pm 2$ MHz to $f_o \pm 80$ MHz	dB	30	46.6	-
Rejection : 291.000 to 2000 MHz	dB	40	70	-
Substrate Material	-	-	Quartz	-
Operating Temperature Range	$^{\circ}$ C	-10	25	85

**Package Outline**



**Matching Configuration**



$L1 = 47$  nH,  $L2 = 51$  nH  
 $C1 = 33$  pf,  $C2 = 35$  pf  
Nominal Source/Load Impedance =  $50\Omega$   
Package Style SMP-53

11/24/99