

## Applications

Automotive, recreational, military, marine, aviation, surveying

## Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Center Frequency $f_0$	1605.0 $\pm$ 3.0 *	MHz	With 50x50mm Square ground Plane
Bandwidth	5.0 min	MHz	Return Loss $\leq$ -10dB
Gain at Zenith	+0 tpy	dBi	@1605.0 MHz*
Gain at 10° elevation	-8.0 tpy	dBi	@1605.0 MHz*
Impedance	50	$\Omega$	
Axial ratio	3 max	dB	@1605.0MHz

※ MCV Standard spec

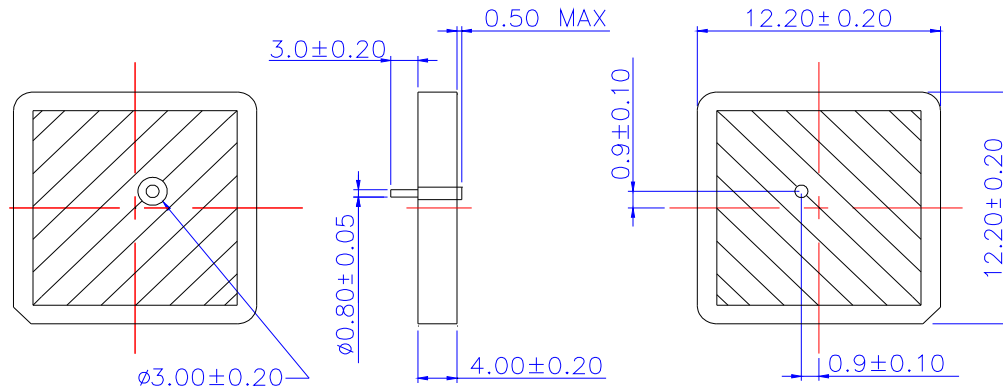
\*: MA1204XXP: XX=05 MA120405P  $f_0 = 1605$  MHz

MCV Part No.	XX	f0(MHz)	MCV Part No.	XX	f0(MHz)
MA120495P	95	1595	<b>MA120405P</b>	<b>05</b>	<b>1605</b>
MA120496P	96	1596	MA120406P	06	1606
MA120497P	97	1597	MA120407P	07	1607
MA120498P	98	1598	MA120408P	08	1608
MA120499P	99	1599	MA120409P	09	1609
MA120400P	00	1600	MA120410P	10	1610
MA120401P	01	1601	MA120411P	12	1611
MA120402P	02	1602	MA120412P	13	1612
MA120403P	03	1603	MA120413P	14	1613
MA120404P	04	1604	MA120414P	15	1614

## Material Properties

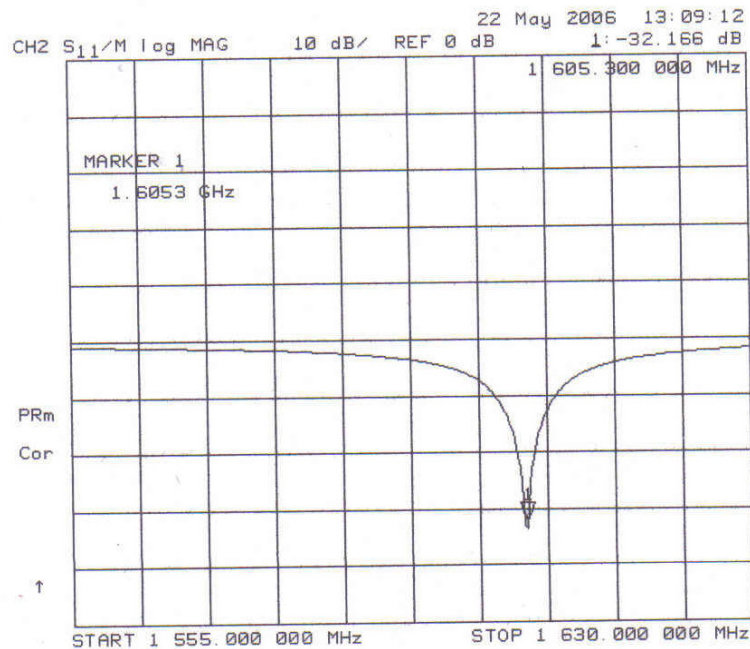
Properties	Specification	Conditions
Dielectric Constant, <b>K</b>	90 $\pm$ 2.5	
Quality Factor, <b>Q</b> (=1/tan $\delta$ )	$\geq$ 5000@9GHz	
Temperature Coefficient of Resonant Frequency, $\tau f$	0 $\pm$ 20 ppm/°C	-40°C to +85°C

## Product Dimensions

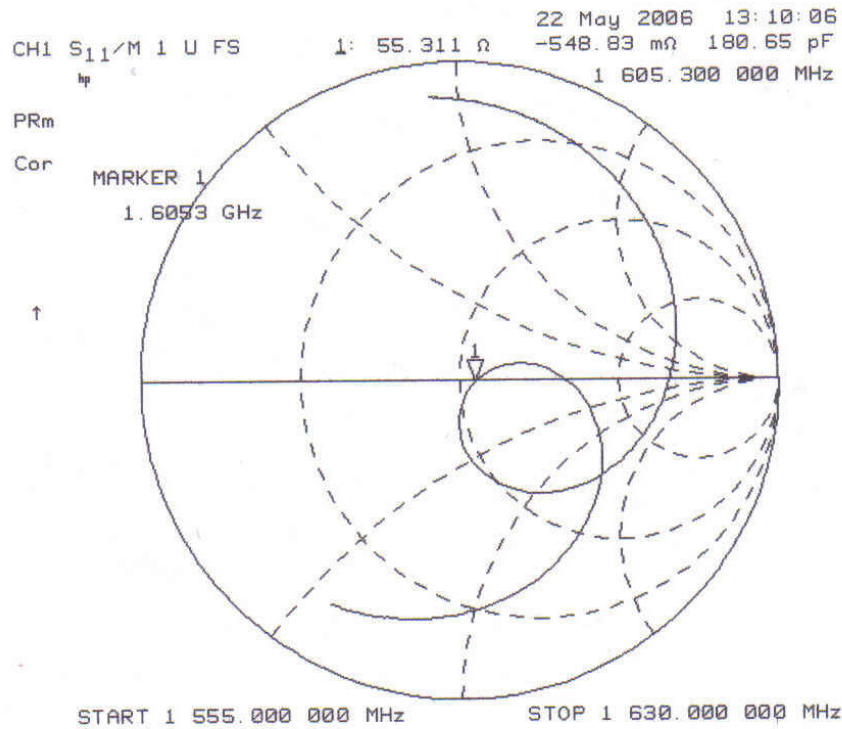


Units: mm

## Reflection Coefficient



## Input Impedance on a Smith Chart



## Center Frequency vs. Ground plane

