

## Applications

Automotive, recreational, military, marine, aviation, surveying

## Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Center Frequency $f_0$	1585.0 $\pm$ 3.0 *	MHz	With 50x50mm Square ground Plane
Bandwidth	5.0 min	MHz	Return Loss $\leq$ -10dB
Gain at Zenith	+1.0 typical	dBi	@1585.0 MHz*
Gain at 10° elevation	-7.0 typical	dBi	@1585.0 MHz*
Impedance	50	$\Omega$	
Axial ratio	3 max	dB	@1585.0MHz

※MCV standard spec

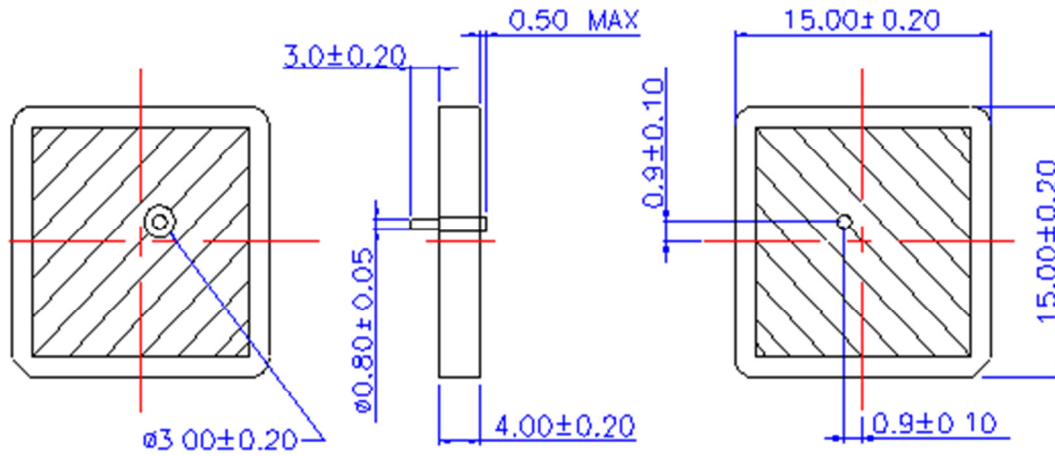
\*: MA1504XXP: XX=85 MA150485P  $f_0 = 1585$  MHz

MCV Part No.	XX	f0(MHz)	MCV Part No.	XX	f0(MHz)
MA150476P	76	1576	MA150486P	86	1586
MA150477P	77	1577	MA150487P	87	1587
MA150478P	78	1578	MA150488P	88	1588
MA150479P	79	1579	MA150489P	89	1589
MA150480P	80	1580	MA150490P	90	1590
MA150481P	81	1581	MA150491P	91	1591
MA150482P	82	1582	MA150492P	92	1592
MA150483P	83	1583	MA150493P	93	1593
MA150484P	84	1584	MA150494P	94	1594
MA150485P	85	1585	MA150495P	95	1595

## Material Properties

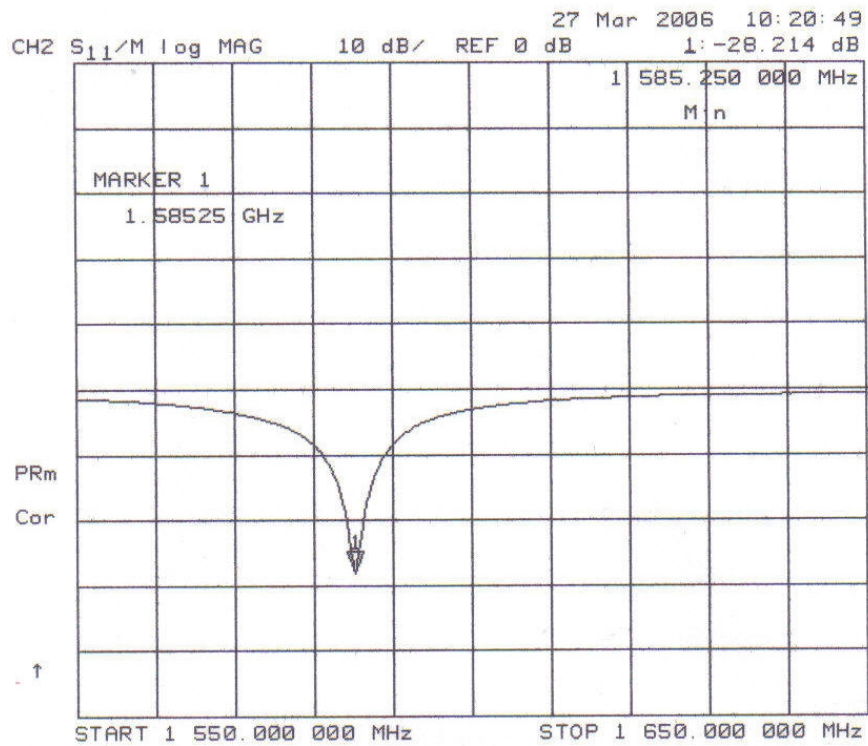
Properties	Specification	Conditions
Dielectric Constant, <b>K</b>	65 $\pm$ 2.5	
Quality Factor, <b>Q</b> (=1/tan $\delta$ )	$\geq$ 5000@9GHz	
Temperature Coefficient of Resonant Frequency, $\tau f$	0 $\pm$ 20 ppm/°C	-40°C to +85°C

## Product Dimensions

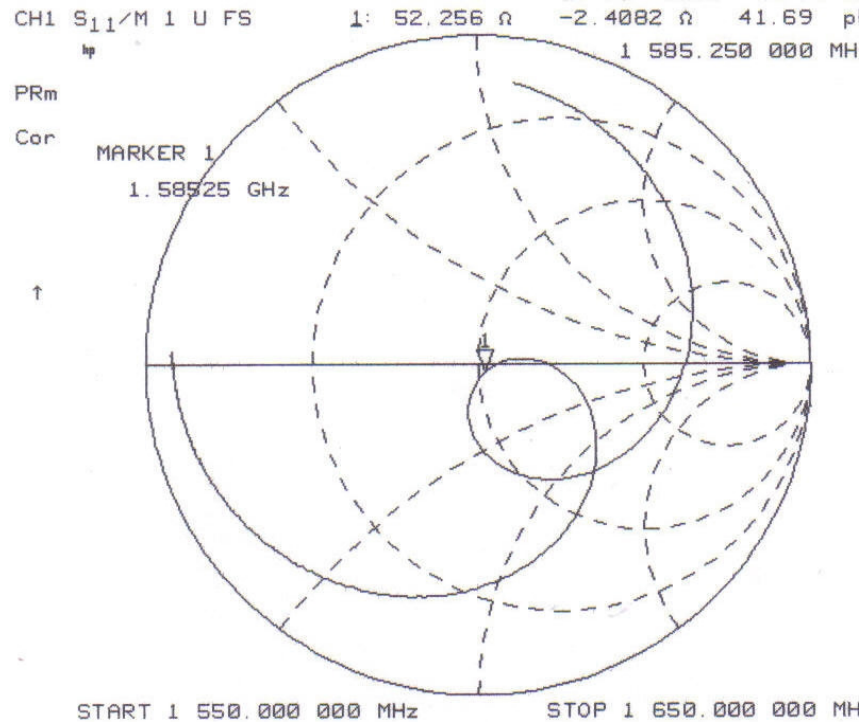


Units: mm

## Reflection Coefficient



### Input Impedance on a Smith Chart



### Center Frequency vs. Ground plane

