

## Applications

Automotive, recreational, military, marine, aviation, surveying

## Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Center Frequency $f_0$	1580.0 $\pm$ 3.0 *	MHz	With 70x70mm Square ground Plane
Bandwidth	9.0 min	MHz	Return Loss $\leq$ -10dB
Gain at Zenith	+5.0 typical	dBi	@1580.0 MHz*
Gain at 10° elevation	-1.0 typical	dBi	@1580.0 MHz*
Impedance	50	$\Omega$	
Axial ratio	3 max	dB	@1580.0MHz

※MCV standard spec

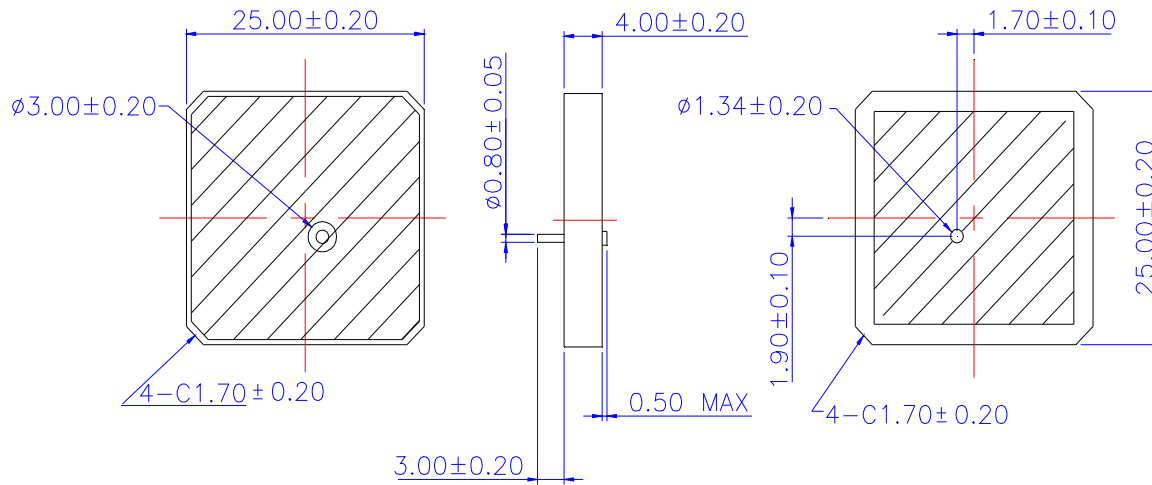
\*: MA2504XXP: XX=80 MA250480P  $f_0 = 1580$  MHz

MCV Part No.	XX	f0(MHz)	MCV Part No.	XX	f0(MHz)
MA250476P	76	1576	MA250486P	86	1586
MA250477P	77	1577	MA250487P	87	1587
MA250478P	78	1578	MA250488P	88	1588
MA250479P	79	1579	MA250489P	89	1589
MA250480P	80	1580	MA250490P	90	1590
MA250481P	81	1581	MA250491P	91	1591
MA250482P	82	1582	MA250492P	92	1592
MA250483P	83	1583	MA250493P	93	1593
MA250484P	84	1584	MA250494P	94	1594
MA250485P	85	1585	MA250495P	95	1595

## Material Properties

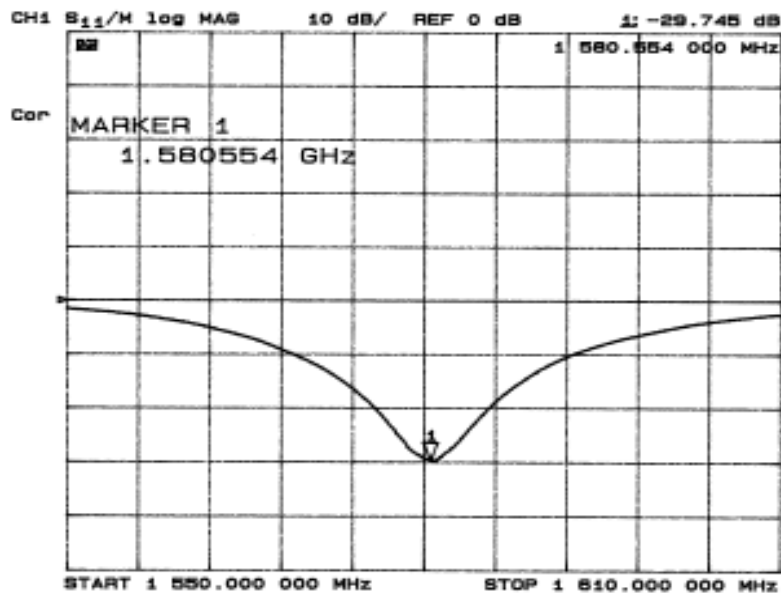
Properties	Specification	Conditions
Dielectric Constant, <b>K</b>	20 $\pm$ 2.5	
Quality Factor, <b>Q</b> (=1/tan $\delta$ )	$\geq$ 5000@9GHz	
Temperature Coefficient of Resonant Frequency, $\tau f$	0 $\pm$ 20 ppm/°C	-40°C to +85°C

## Product Dimensions

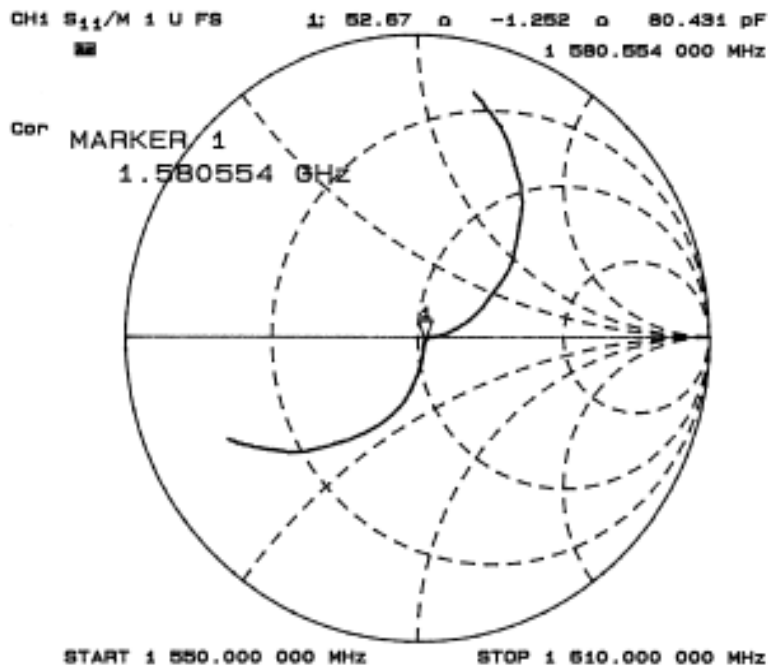


Units: mm

## Reflection Coefficient



## Input Impedance on a Smith Chart



## Center Frequency vs. Ground plane

