

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	+1 tpy	dBi	@1605.0 MHz *
Gain at 10° elevation	-7.0 tpy	dBi	@1605.0 MHz *
Impedance	50	Ω	
Axial ratio	3 max	dB	@1605.0MHz

※ MCV Standard spec

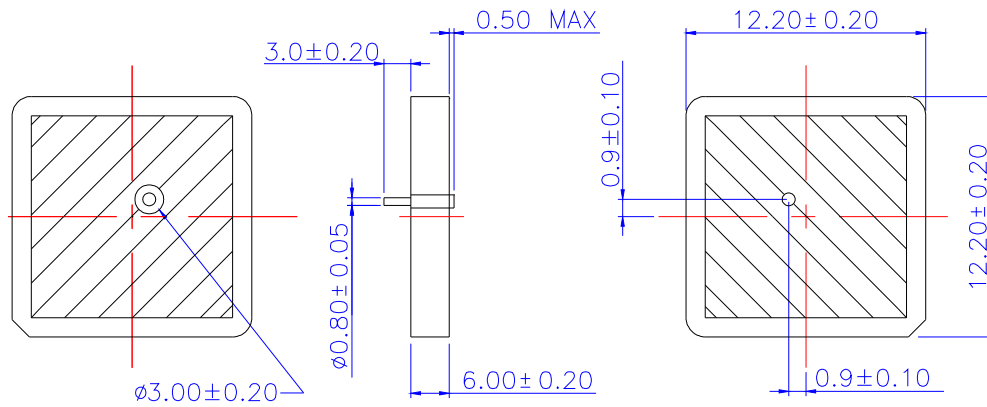
*: MA1206XXP: XX=05 MA120605P $f_0 = 1605$ MHz

MCV Part No.	XX	f0(MHz)	MCV Part No.	XX	f0(MHz)
MA120695P	95	1595	MA120605P	05	1605
MA120696P	96	1596	MA120606P	06	1606
MA120697P	97	1597	MA120607P	07	1607
MA120698P	98	1598	MA120608P	08	1608
MA120699P	99	1599	MA120609P	09	1609
MA120600P	00	1600	MA120610P	10	1610
MA120601P	01	1601	MA120611P	12	1611
MA120602P	02	1602	MA120612P	13	1612
MA120603P	03	1603	MA120613P	14	1613
MA120604P	04	1604	MA120614P	15	1614

Material Properties

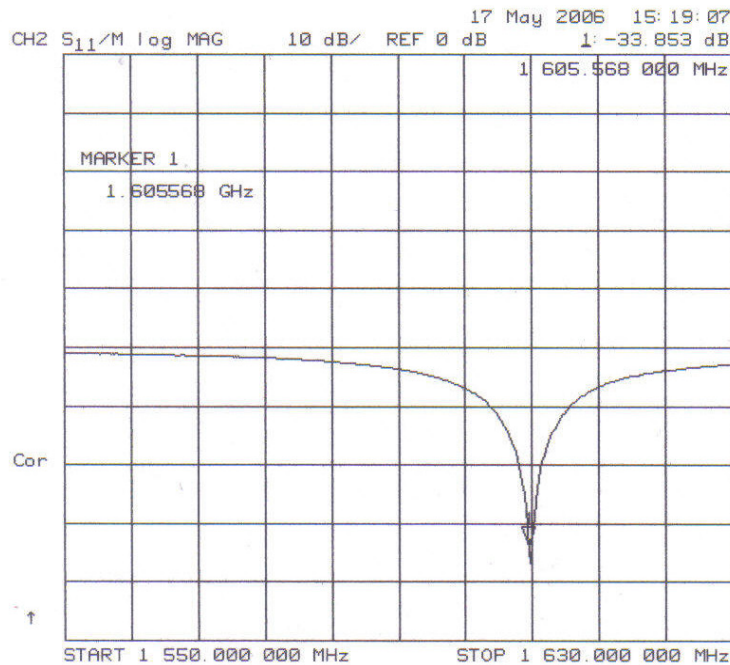
Properties	Specification	Conditions
Dielectric Constant, K	90 \pm 2.5	
Quality Factor, Q (=1/tan δ)	\geq 5000@9GHz	
Temperature Coefficient of Resonant Frequency, τf	0 \pm 20 ppm/°C	-40°C to +85°C

Product Dimensions

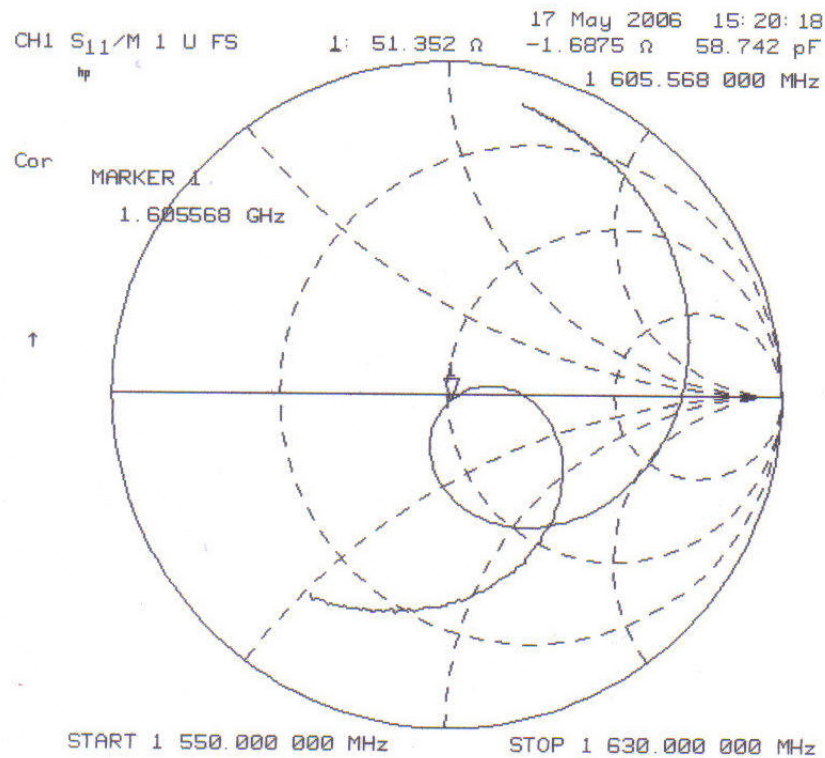


Units: mm

Reflection Coefficient



Input Impedance on a Smith Chart



Center Frequency vs. Ground plane

