

Rev	Zone	Description	ENG	Approved	Date

F  
E  
D  
C  
B  
A

Electrical Properties	
Frequency Range	890~960 MHz 1710~2170 MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2dBi
Polarization	Vertical
Mechanical Properties	
Whip	PC
Connector	Brass
Weight	400 g (est.)
Operating Temp	-20°C ~ +65°C

A UNLESS OTHERWISE SPECIFIED TOLERANCES ON: X ± 1 X.X ± 0.5 X.XX ± 0.25 ANG. ± 2.0° THIRD ANGLE PROJECTION	DRAWN BY: KYLIU DESIGNED BY: CHECKED BY: APPROVED BY:	MATERIAL: FINISH: SCALE: 1/2 UNIT:mm DATE :	TITLE : Magnet Mount Antenna DRAW No: PART No: CAF-6540FMXX REV : 00
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO JOYMAX AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		

## ELECTRICAL CHARACTERISTICS:

**A. High Performance Polyethylene Dielectric Coaxial Cable**

Model Number	Impedance (Ohms)	Capacitance (pf/m)	Velocity of Propagation (%)	Max. Voltage (vdc)	Attenuation /100m (100MHz)	(400MHz)	(800MHz)	(1GHz)	(2GHz)	(3GHz)	(4GHz)	(5GHz)	(6GHz)
HPP-100	50	102	66	2500	24.81	48.80	70.50	79.39	116.10	145.03	169.58	195.15	217.84
HPF-195	50	80	80	2500	11.68	22.60	34.45	38.76	56.33	74.29	86.59	97.90	106.85
HPF-240	50	80	84	2500	9.34	17.09	23.85	27.70	40.49	52.14	54.31	66.52	75.59
HPF-400	50	78	86	2500	5.58	10.01	12.45	16.17	20.60	25.81	27.69	34.34	44.20

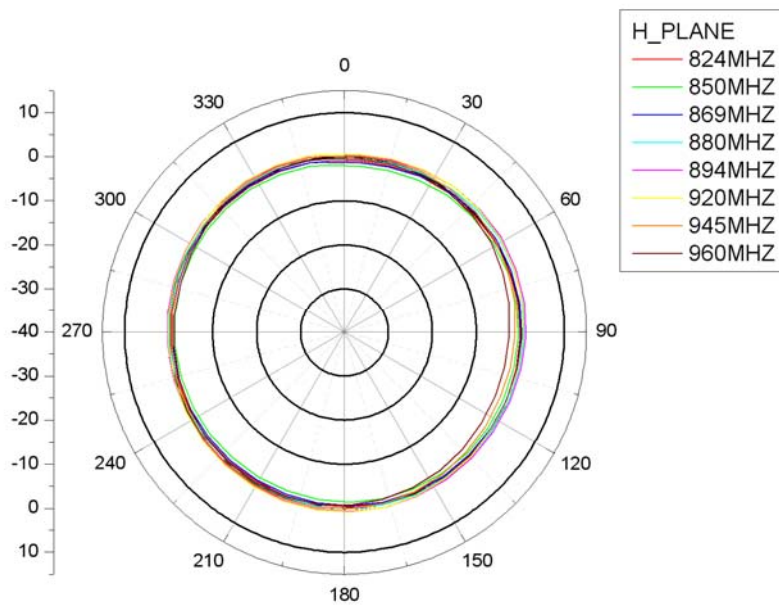
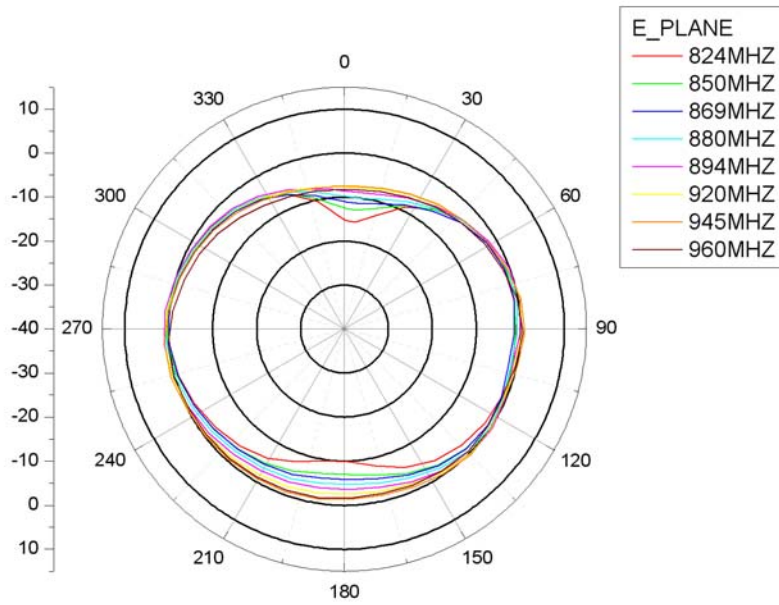
**B. Teflon Dielectric Coaxial Cable**

Model Number	Impedance (Ohms)	Capacitance (pf/m)	Velocity of Propagation (%)	Max. Voltage (vdc)	Attenuation /100m (100MHz)	(400MHz)	(800MHz)	(1GHz)	(2GHz)	(3GHz)	(4GHz)	(5GHz)	(6GHz)
RG-142	50	96	69	-	13.02	27.58	39.16	46.74	66.78	87.13	101.68	124.50	132.31
RG-316	50	105	70	-	26.04	57.10	84.74	97.06	150.01	190.92	234.89	273.57	319.92
RG-178	50	105	70	-	47.35	108.59	152.57	174.16	264.07	340.93	413.34	484.97	566.19
AWG30 D=1.37mm	50	96.5	-	200Vac	44.78	91.83	129.36	147.33	210.04	263.41	315.33	359.44	389.42
AWG32 D=1.13mm	50	98	-	200Vac	63.21	131.20	190.55	226.47	322.43	414.92	512.47	593.76	660.42

**C. Polyethylene Dielectric Coaxial Cable**

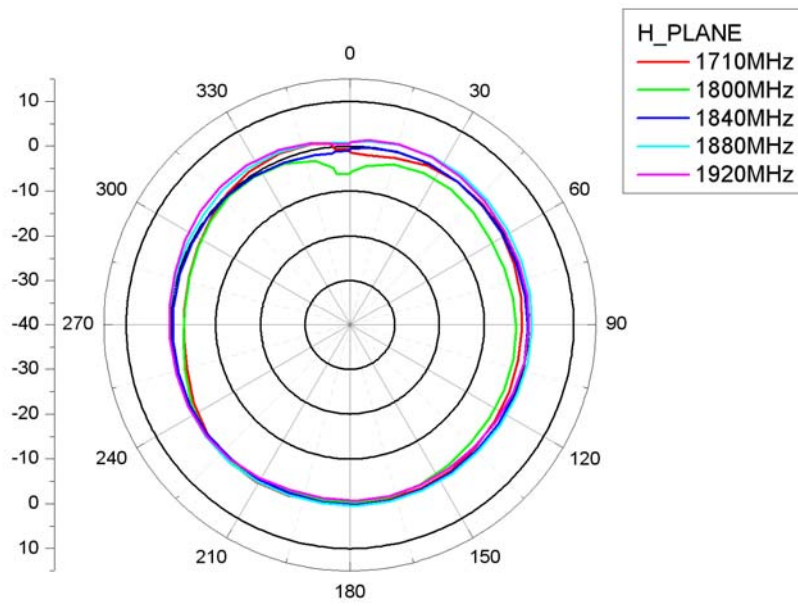
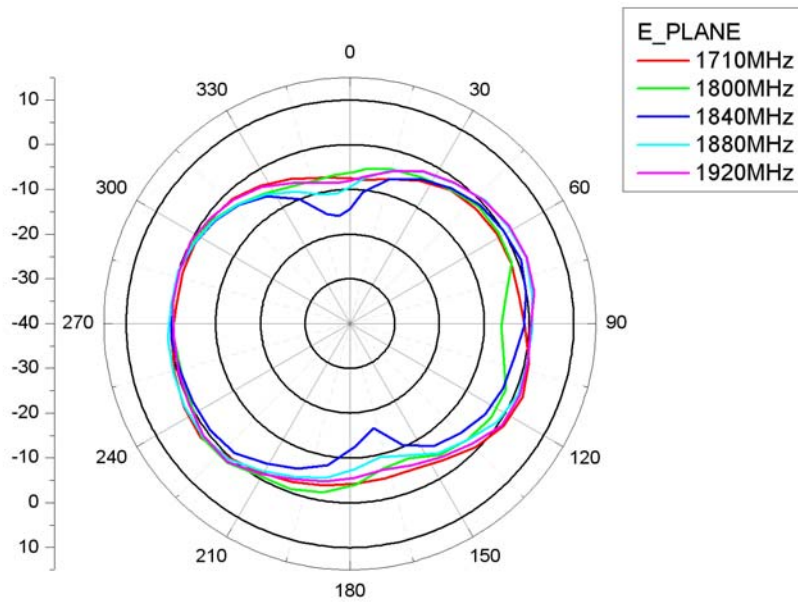
Model Number	Impedance (Ohms)	Capacitance (pf/m)	Velocity of Propagation (%)	Max. Voltage (vdc)	Attenuation /100m (100MHz)	(400MHz)	(800MHz)	(1GHz)	(2GHz)	(3GHz)	(4GHz)	(5GHz)	(6GHz)
RG-213/U	50	98	66	5 ACKV	4.45	10.14	16.81	19.12	31.36	46.22	55.80	77.42	107.18
RG58/U	50	94	66	1.9 ACKV	14.02	29.38	41.24	47.87	67.55	87.62	105.84	123.65	134.69
RG58C/U	50	100	66	1.9 ACKV	16.03	33.79	49.43	56.35	84.36	112.56	129.73	163.40	178.84
RG58/U Low Loss	50	85	78	1 ACKV	13.66	29.36	39.15	48.18	70.84	93.15	103.93	132.30	129.14
RG174/U	50	101	66	1.5 ACKV	29.46	63.09	92.17	103.97	153.81	194.88	232.83	273.13	312.42

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Peak Gain	824MHZ	850MHZ	869MHZ	880MHZ	894MHZ	920MHZ	945MHZ	960MHZ
E_PLANE	0.06	0.3	0.04	0.63	1.11	0.95	1	0.51
H_PLANE	0.02	-0.42	0.49	1.17	1.69	1.51	0.64	0.08

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Peak Gain	1710MHZ	1800MHZ	1840MHZ	1880MHZ	1920MHZ
E_PLANE	1.95	1.72	0.8	2.1	2.15
H_PLANE	1.43	0.47	0.29	2.01	2.58