

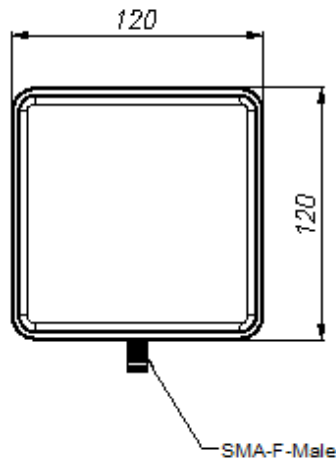
Specifications

ITEM :	AIR PATCH Antenna
PART NAME:	1212F-25C4A-920
MODEL NAME:	1212F-25C4A-920
FEATURES :	900MHz ISM BAND Circular microstrip patch antenna
DATE :	2019,10,15

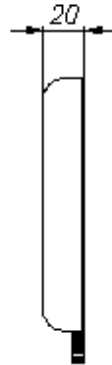
Electrical Specifications

NO.	Parameter	Spec.	Unit	Remark
1	Center Frequency	920.0	MHz	
2	Band Width	7 typ.	MHz	
3	VSWR	1.5 : 1 max.	Ratio	
4	Impedance	50	Ohms	
5	Peak Gain	2.16 typ.	dBi	
6	Polarization	RHCP		
7	Beam Width	111 typ.	Deg.	

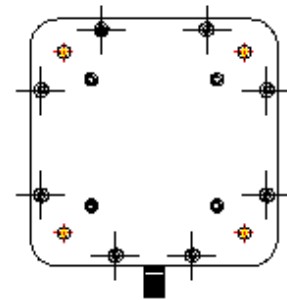
Mechanical Dimensions. (unit : mm)



FRONT

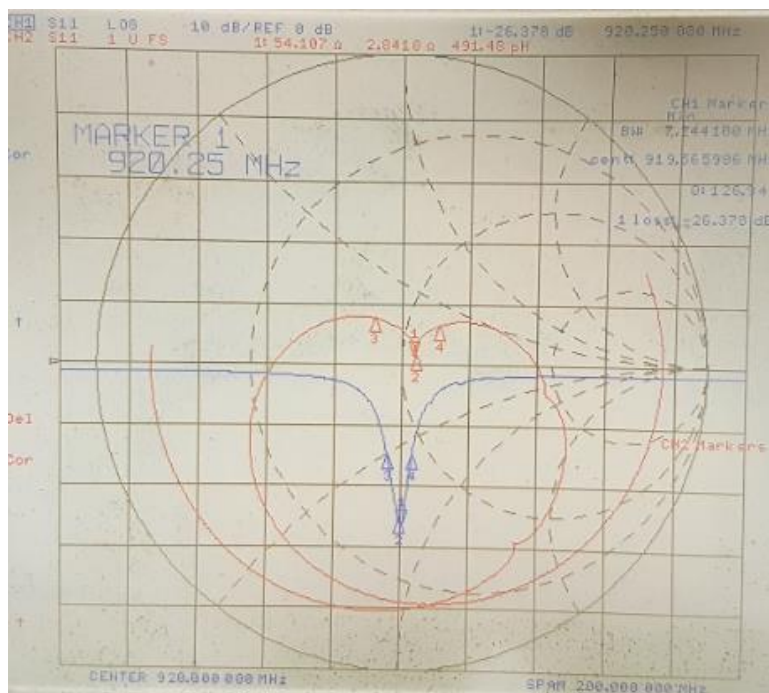


SIDE



back

S-Paramater DATA(R/L)

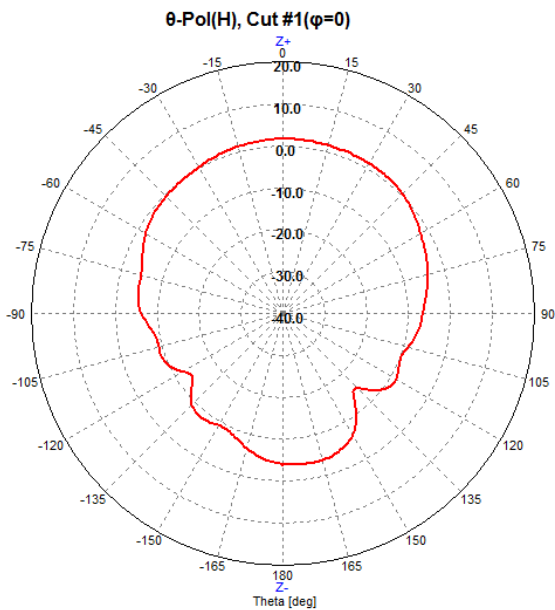


Antenna Gain data Sheet

Source Antenna Polarization	Gain							
	902.0 MHz	908.0 MHz	914.0 MHz	916.0 MHz	918.0 MHz	920.0 MHz	922.0 MHz	928.0 MHz
H-POL(dBi)	-4.06	-1.26	-0.01	0.34	1.13	1.91	2.16	1.47

Radiation Patterns

	Cut#1(φ=0)																		
Freq.	Avg.	Peak	Null	BW	F/B R.	SLLL3	SLLL2	SLLL1	SLLR1	SLLR2	SLLR3								
	[dBi]	[dBi]	[deg]	[deg]	[deg]	[deg]	[deg]	[deg]	[deg]	[deg]	[deg]								
0.902	-8.21	-4.06	8.00	-17.77	133.00	111.64	4.96	179.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.904	-7.78	-3.59	8.00	-17.52	135.00	111.77	5.07	177.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.906	-6.82	-2.61	6.00	-16.81	133.00	111.76	5.16	178.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.908	-5.50	-1.26	8.00	-15.88	134.00	111.87	5.26	-180.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.910	-4.48	-0.23	4.00	-15.24	134.00	111.89	5.30	178.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.912	-4.23	0.03	4.00	-15.31	135.00	112.00	5.32	177.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.914	-4.27	-0.01	8.00	-15.70	134.00	111.98	5.36	175.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.916	-3.94	0.34	5.00	-15.67	135.00	111.87	5.36	173.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00
0.918	-3.15	1.13	6.00	-15.38	136.00	111.92	5.32	172.00	999.00	999.00	999.00	999.00	999.00	999.00	-10.58	120.00	999.00	999.00	999.00
0.919	-2.73	1.56	6.00	-15.18	137.00	111.76	5.29	172.00	999.00	999.00	999.00	999.00	999.00	999.00	-10.39	121.00	999.00	999.00	999.00
0.920	-2.39	1.91	3.00	-15.07	137.00	111.38	5.21	168.00	999.00	999.00	999.00	999.00	999.00	999.00	-10.09	121.00	999.00	999.00	999.00
0.922	-2.15	2.16	3.00	-15.24	138.00	110.49	5.02	168.00	999.00	999.00	999.00	999.00	-9.82	-143.00	-9.51	122.00	999.00	999.00	999.00
0.924	-2.41	1.91	2.00	-15.59	140.00	108.26	4.86	168.00	999.00	999.00	999.00	999.00	999.00	999.00	-8.83	124.00	999.00	999.00	999.00
0.926	-2.84	1.52	-2.00	-15.06	142.00	106.68	4.97	169.00	999.00	999.00	999.00	999.00	-10.22	-116.00	-8.49	126.00	999.00	999.00	999.00
0.928	-2.91	1.47	-6.00	-14.19	-133.00	107.35	5.20	171.00	999.00	999.00	999.00	999.00	-10.24	-118.00	-8.60	128.00	999.00	999.00	999.00



List of utilized test equipment

NO	Kind of Equipment and Precision	Manufacturer	Model No.	Serial Number	Calibration Date	Specification	Note
1	Anechoic Chamber	MTG/ETS	Full Anechoic Chamber	-	N/A	15.24 m X 7.9 m X 7.9 m (0.4 ~ 18 GHz)	
2	Network Analyzer	Agilent	8753D	3410J00855	15/11/03	300 KHz ~ 3GHz	
3	Dual-Polarization Horn Antenna with RF Switch	MTG	QRH-004060		-	0.4 MHz ~ 6 GHz	Source
4	Calibration Antenna	Schwarzbeck Mess - Elektronik	BBHA 9120 LF	254	10/12/24	0.7 MHz ~ 6 GHz	Source/ Reference
5	Absorber Installation	ETS	EHP series			Reflectivity : -25 dB @ 0.4 GHz -50 dB @ 18 GHz	

Test institute : RAPA (Korea Radio Promotion Association) EMTI (Electromagnetic wave Technology Institute