



Chip Antenna Specification

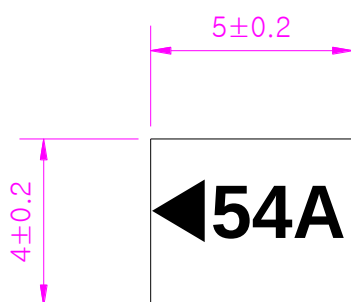


Customer		Written	Checked	Approved
Part No.	KSCA-UWBS54A	SY Kim		
Date				

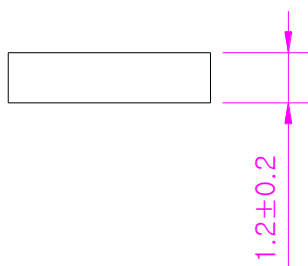
1. Electrical Specifications.

ITEM		Specifications
Operating Frequency		6000 ~ 8000 MHz
Return Loss		5 dB min
Impedance		50 Ω
Polarization		linear
Peak Gain [VH-SUM]	@6000MHz	4.47 dBi
	@7000MHz	5.63 dBi
	@8000MHz	2.04 dBi
Test Ground		23x13mm

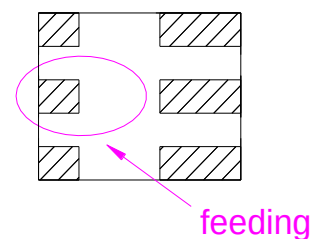
2. Dimensions.



[TOP]



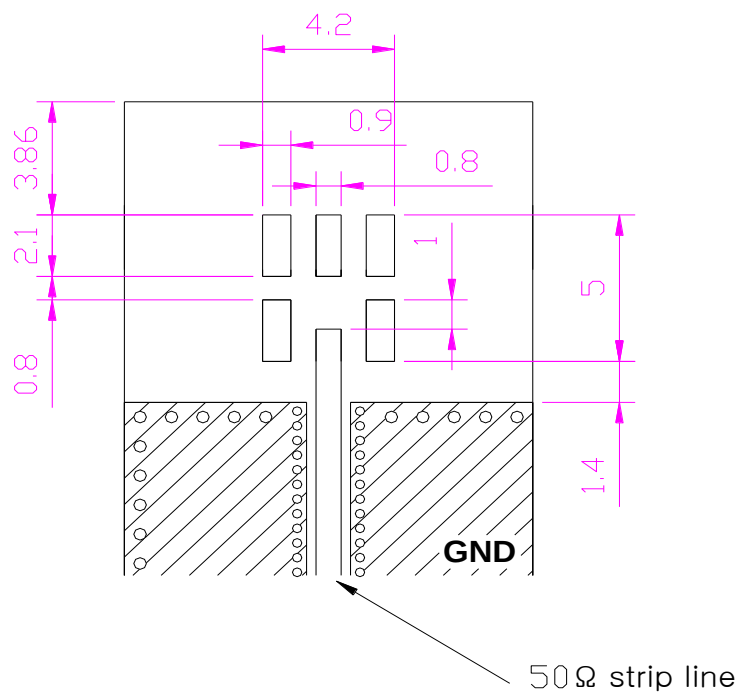
[SIDE]



[BOTTOM]

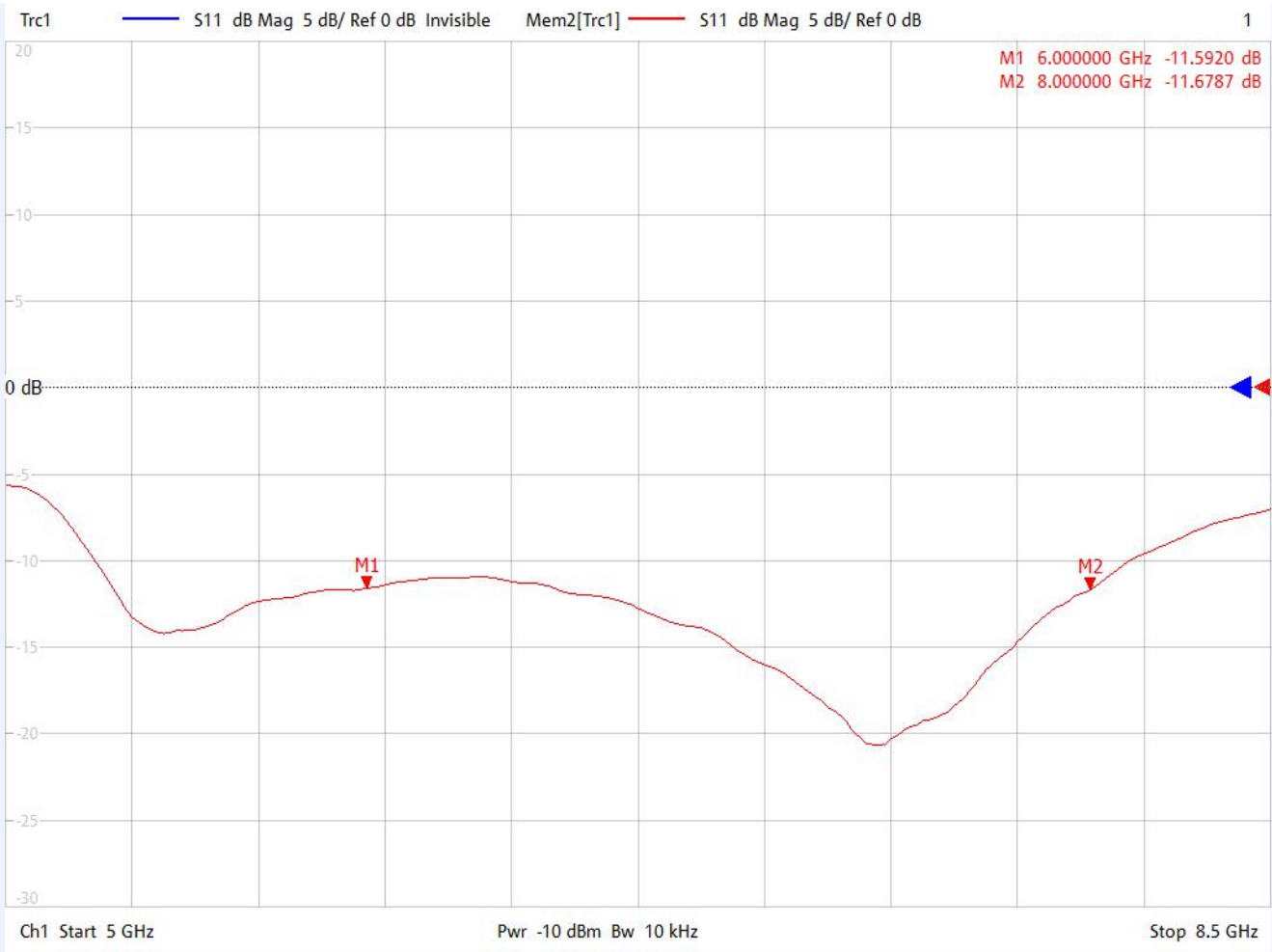
Tolerance Unless
Otherwise Specified: ± 0.20
Unit: mm

3. Footprint



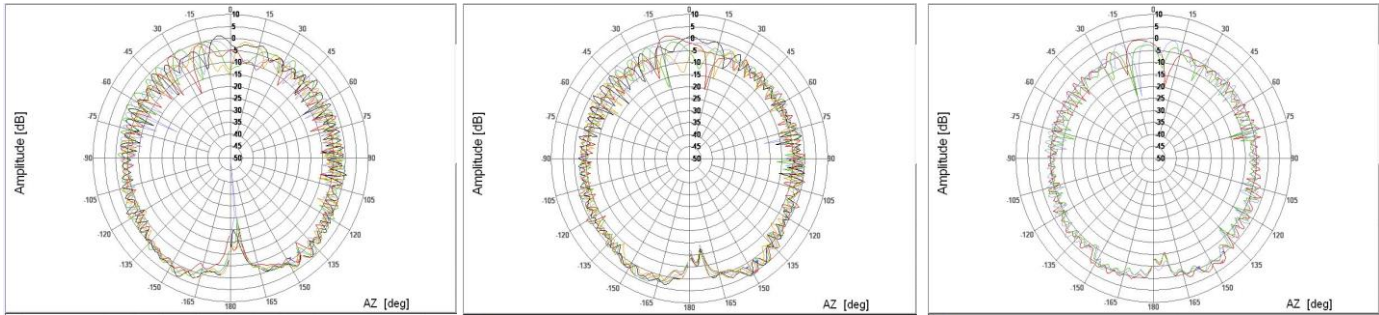
4. Data

4.1) Return Loss



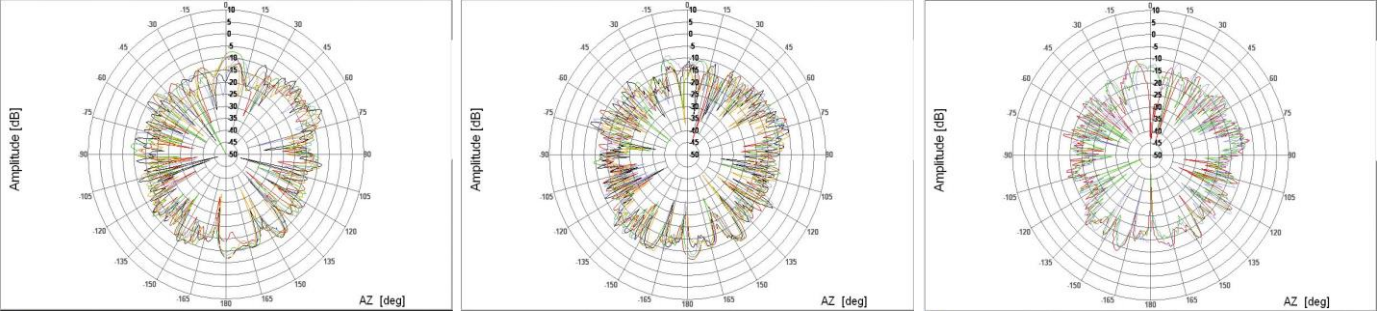
4.2) Antenna Chamber Data

4.2.1) H-plane



A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		GainA					
							Value	[deg]	Value	At dB	Value	[deg]	dBi					
		UWB6~8GHZ1_90deg-CALnff	5.8000 G	CH1			2.79	145.00	P	5.50	3.00	P		2.79				
		UWB6~8GHZ1_90deg-CALnff	6.0000 G	CH1			4.47	137.00	P	5.22	3.00	P		4.47				
		UWB6~8GHZ1_90deg-CALnff	6.2000 G	CH1			4.03	138.00	P	4.85	3.00	P		4.03				
		UWB6~8GHZ1_90deg-CALnff	6.4000 G	CH1			4.50	139.00	P	5.53	3.00	P		4.50				
		UWB6~8GHZ1_90deg-CALnff	6.6000 G	CH1			4.17	140.00	P	5.04	3.00	P		4.17				
		UWB6~8GHZ1_90deg-CALnff	6.8000 G	CH1			5.45	148.00	P	5.44	3.00	P		5.45				
		UWB6~8GHZ1_90deg-CALnff	7.0000 G	CH1			5.63	149.00	P	5.96	3.00	P		5.63				
		UWB6~8GHZ1_90deg-CALnff	7.2000 G	CH1			5.95	150.00	P	6.13	3.00	P		5.95				
		UWB6~8GHZ1_90deg-CALnff	7.4000 G	CH1			5.49	151.00	P	5.81	3.00	P		5.49				
		UWB6~8GHZ1_90deg-CALnff	7.6000 G	CH1			4.05	144.00	P	6.92	3.00	P		4.05				
		UWB6~8GHZ1_90deg-CALnff	7.8000 G	CH1			3.07	145.00	P	14.70	3.00	P		3.07				
		UWB6~8GHZ1_90deg-CALnff	8.0000 G	CH1			2.09	154.00	P	13.91	3.00	P		2.09				
		UWB6~8GHZ1_90deg-CALnff	8.2000 G	CH1			2.17	155.00	P	8.78	3.00	P		2.17				

4.2.2) E-plane



A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		GainA					
							Value	[deg]	Value	At dB	Value	[deg]	dBi					
		UWB6~8GHZ1-CALnff	5.8000 G	CH1			-8.43	141.00	P	6.86	3.00	P		-8.43				
		UWB6~8GHZ1-CALnff	6.0000 G	CH1			-8.80	65.00	P	8.48	3.00	P		-8.80				
		UWB6~8GHZ1-CALnff	6.2000 G	CH1			-6.52	63.00	P	8.17	3.00	P		-6.52				
		UWB6~8GHZ1-CALnff	6.4000 G	CH1			-4.41	66.00	P	7.29	3.00	P		-4.41				
		UWB6~8GHZ1-CALnff	6.6000 G	CH1			-6.14	68.00	P	4.44	3.00	P		-6.14				
		UWB6~8GHZ1-CALnff	6.8000 G	CH1			-4.72	71.00	P	3.92	3.00	P		-4.72				
		UWB6~8GHZ1-CALnff	7.0000 G	CH1			-6.30	73.00	P	3.69	3.00	P		-6.30				
		UWB6~8GHZ1-CALnff	7.2000 G	CH1			-4.52	75.00	P	3.09	3.00	P		-4.52				
		UWB6~8GHZ1-CALnff	7.4000 G	CH1			-4.97	77.00	P	5.88	3.00	P		-4.97				
		UWB6~8GHZ1-CALnff	7.6000 G	CH1			-4.89	80.00	P	3.00	3.00	P		-4.89				
		UWB6~8GHZ1-CALnff	7.8000 G	CH1			-6.52	82.00	P	2.91	3.00	P		-6.52				
		UWB6~8GHZ1-CALnff	8.0000 G	CH1			-8.52	84.00	P	2.06	3.00	P		-8.52				
		UWB6~8GHZ1-CALnff	8.2000 G	CH1			-7.31	149.00	P	4.22	3.00	P		-7.31				