



Chip Antenna Specification

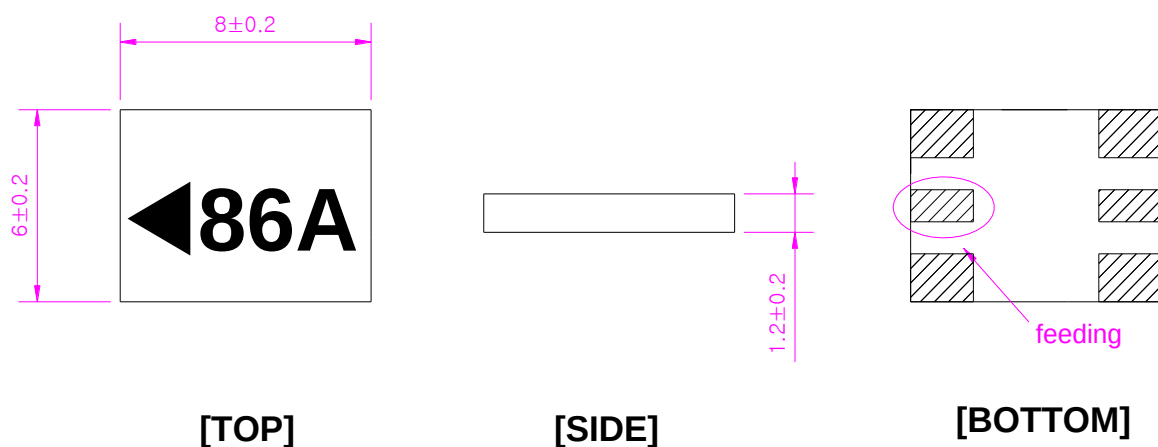


Customer		Written	Checked	Approved
Part No.	KSCA-UWBS86A	SY Kim		
Date				

1. Electrical Specifications.

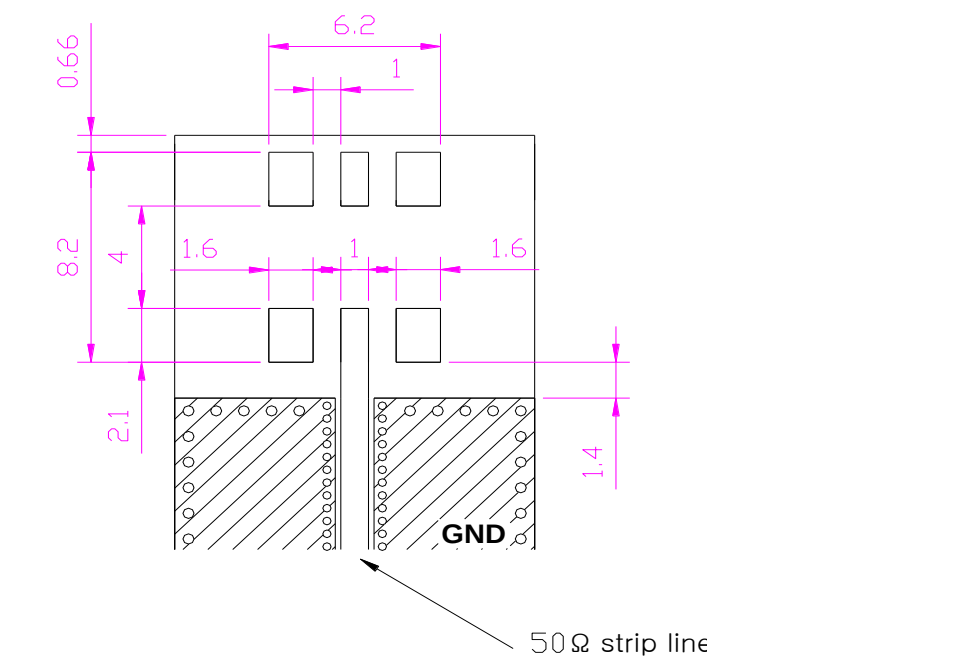
ITEM		Specifications
Operating Frequency		3200 ~ 7200 MHz
Return Loss		5 dB min
Impedance		50 Ω
Polarization		linear
Peak Gain [VH-SUM]	@3200MHz	3.25 dBi
	@4000MHz	6.35 dBi
	@5000MHz	4.78 dBi
	@6000MHz	2.01 dBi
	@7200MHz	-0.84 dBi
Test Ground		23x13mm

2. Dimensions.



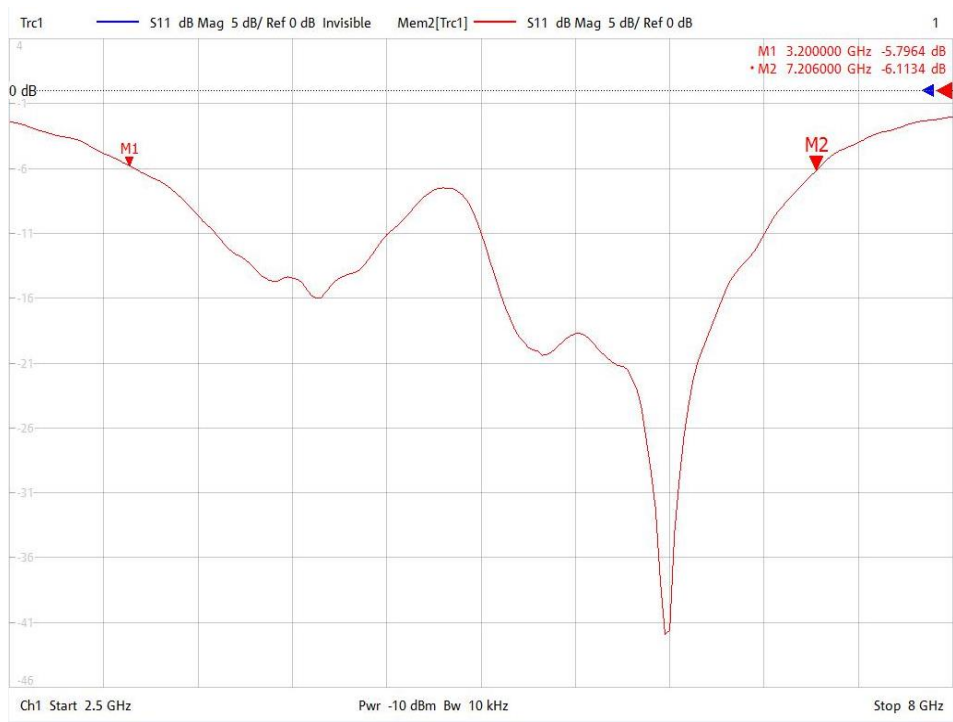
Tolerance Unless
Otherwise Specified: ± 0.20
Unit: mm

3. Footprint



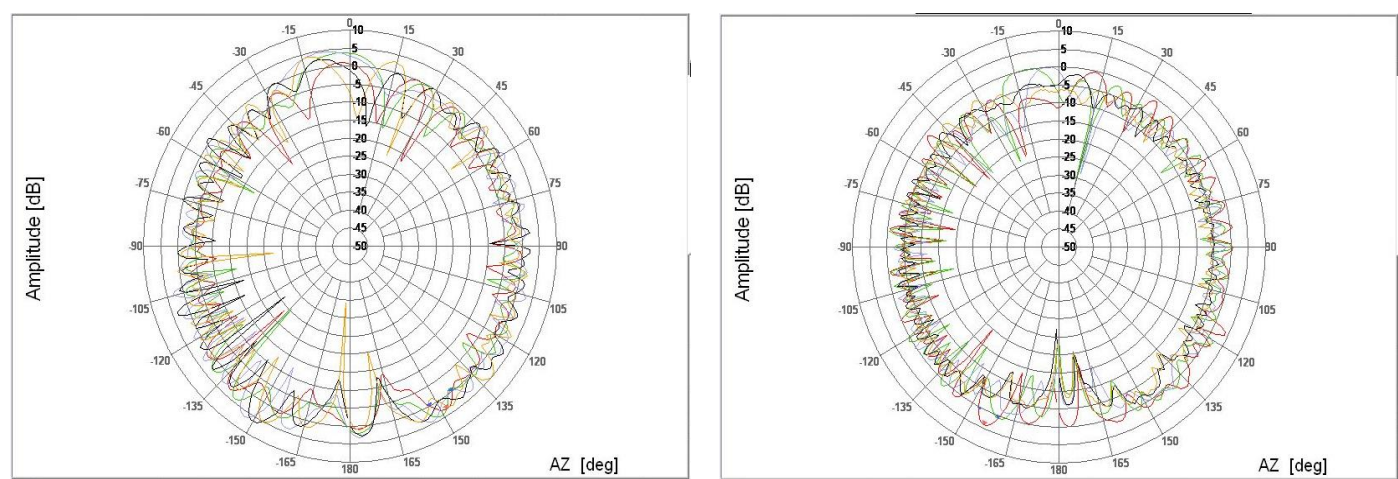
4. Data

4.1) Return Loss



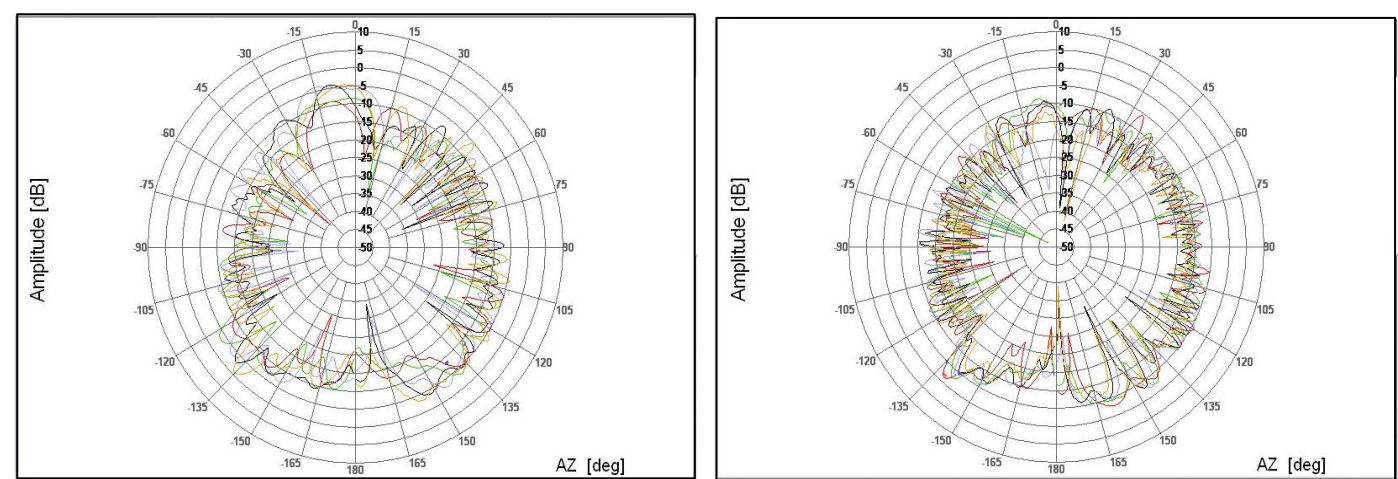
4.2) Antenna Chamber Data

4.2.1) H-plane



A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		GainA dBi			
							Value	[deg]	Value	At dB	Value	[deg]				
		UWB-90deg_1-CAL.nff	3.2000 G	CH1			3.25	148.00	P	8.66	3.00	P	3.25			
		UWB-90deg_1-CAL.nff	3.5000 G	CH1			4.15	150.00	P	8.28	3.00	P	4.15			
		UWB-90deg_1-CAL.nff	4.0000 G	CH1			6.35	-147.00	P	6.43	3.00	P	6.35			
		UWB-90deg_1-CAL.nff	4.5000 G	CH1			6.20	-150.00	P	7.12	3.00	P	6.20			
		UWB-90deg_1-CAL.nff	5.0000 G	CH1			4.78	132.00	P	6.95	3.00	P	4.78			
		UWB-90deg_1-CAL.nff	5.5000 G	CH1			3.92	-156.00	P	6.79	3.00	P	3.92			
		UWB-90deg_1-CAL.nff	6.0000 G	CH1			2.01	121.00	P	4.04	3.00	P	2.01			
		UWB-90deg_1-CAL.nff	6.5000 G	CH1			1.33	140.00	P	12.84	3.00	P	1.33			
		UWB-90deg_1-CAL.nff	7.0000 G	CH1			-0.32	-145.00	P	4.60	3.00	P	-0.32			
		UWB-90deg_1-CAL.nff	7.2000 G	CH1			-0.84	-146.00	P	6.13	3.00	P	-0.84			

4.2.2) E-plane



A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		GainA dBi			
							Value	[deg]	Value	At dB	Value	[deg]				
		UWB-0deg_1-file#1-CAL.nff	3.2000 G	CH1			-4.75	135.00	P	9.87	3.00	P	-4.75			
		UWB-0deg_1-file#1-CAL.nff	3.5000 G	CH1			-3.40	138.00	P	9.11	3.00	P	-3.40			
		UWB-0deg_1-file#1-CAL.nff	4.0000 G	CH1			-2.86	145.00	P	11.15	3.00	P	-2.86			
		UWB-0deg_1-file#1-CAL.nff	4.5000 G	CH1			-2.94	-133.00	P	5.73	3.00	P	-2.94			
		UWB-0deg_1-file#1-CAL.nff	5.0000 G	CH1			-0.54	-135.00	P	5.82	3.00	P	-0.54			
		UWB-0deg_1-file#1-CAL.nff	5.5000 G	CH1			-1.38	-138.00	P	5.62	3.00	P	-1.38			
		UWB-0deg_1-file#1-CAL.nff	6.0000 G	CH1			-2.28	143.00	P	6.36	3.00	P	-2.28			
		UWB-0deg_1-file#1-CAL.nff	6.5000 G	CH1			-2.18	144.00	P	6.13	3.00	P	-2.18			
		UWB-0deg_1-file#1-CAL.nff	7.0000 G	CH1			-3.22	147.00	P	5.26	3.00	P	-3.22			
		UWB-0deg_1-file#1-CAL.nff	7.2000 G	CH1			-4.06	148.00	P	4.96	3.00	P	-4.06			