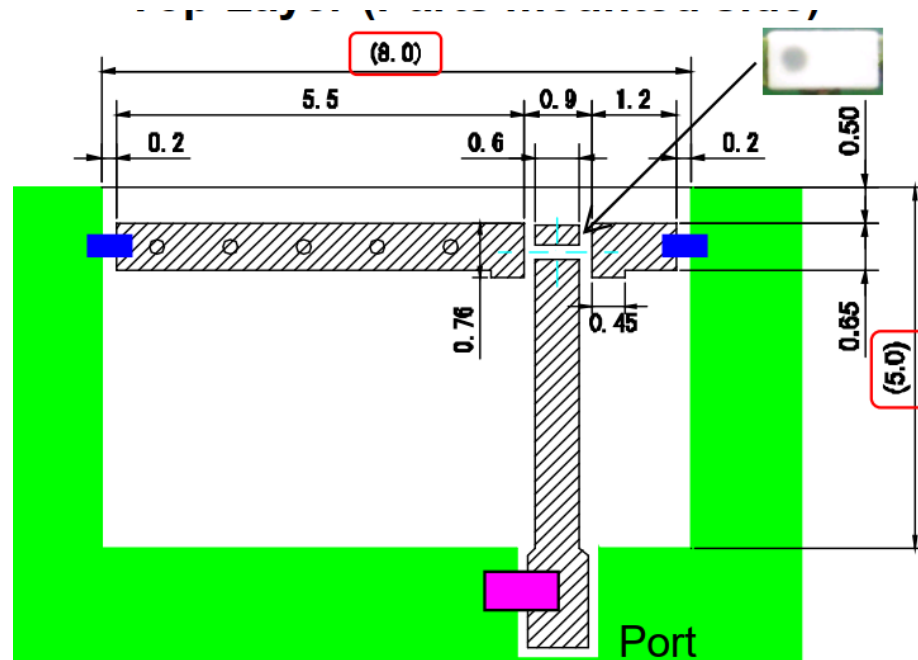


1. Dimension

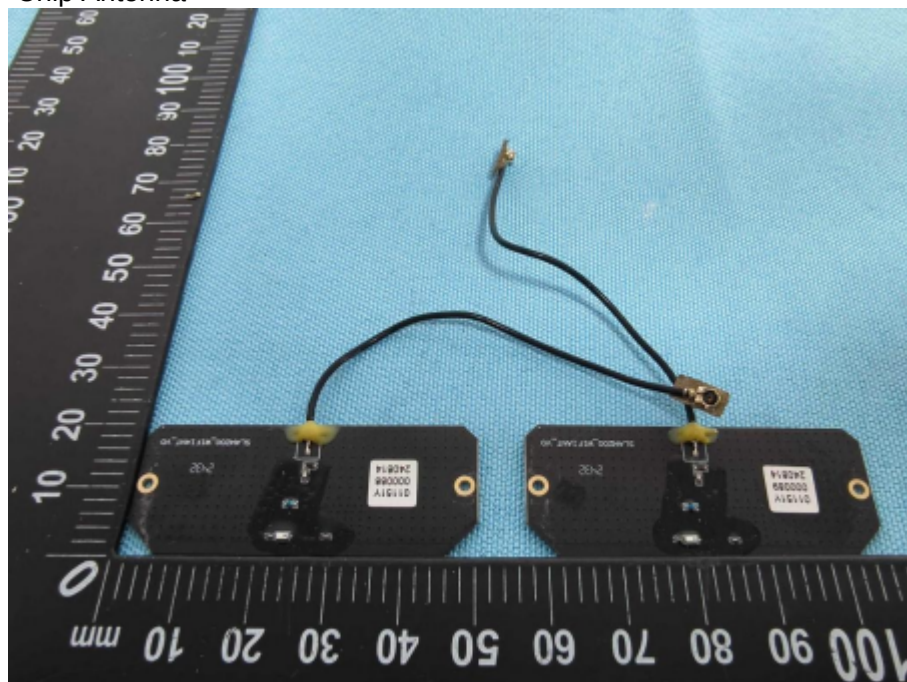


2. Gain

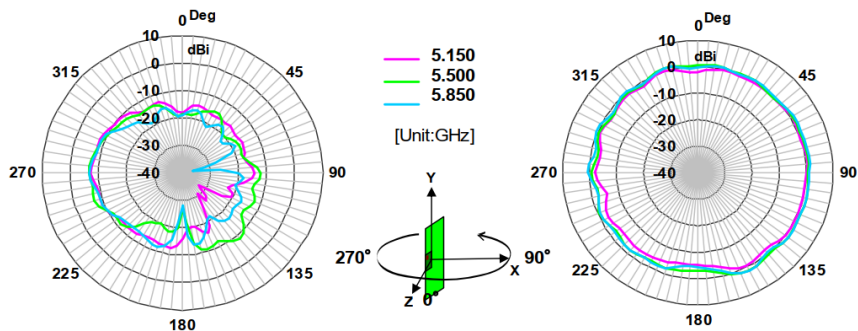
Parameter	Frequency (MHz)			
		Min.	Typ.	Max.
Antenna Gain (dBi)**	2400 to 2484	-	2.13	-
	5150 to 5850	-	2.30	-

3. Radiation Pattern

Chip Antenna



Radiation Pattern

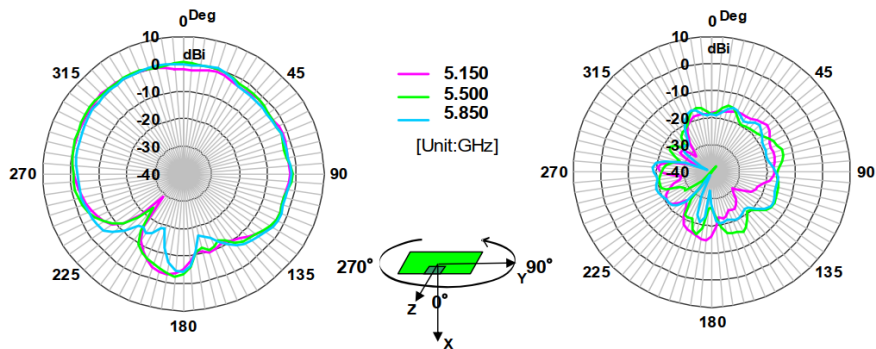


Horizontal Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-12.97	-12.16	-13.58
Maximum[dBi]	-7.48	-6.62	-6.72
Minimum[dBi]	-32.51	-26.84	-36.34

Vertical Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-1.43	-0.20	-0.08
Maximum[dBi]	0.62	1.47	1.73
Minimum[dBi]	-5.45	-3.08	-4.67

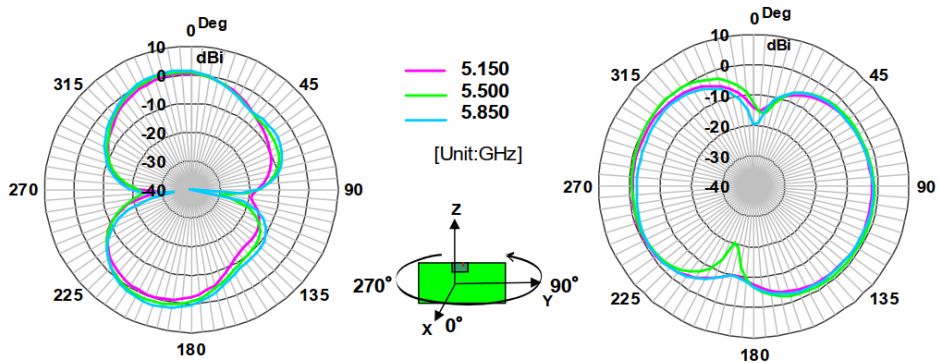


Horizontal Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-2.51	-2.08	-2.65
Maximum[dBi]	1.01	1.13	0.37
Minimum[dBi]	-28.98	-23.90	-18.97

Vertical Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-19.15	-18.18	-19.20
Maximum[dBi]	-13.54	-13.50	-14.93
Minimum[dBi]	-34.57	-42.62	-38.87

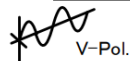
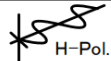


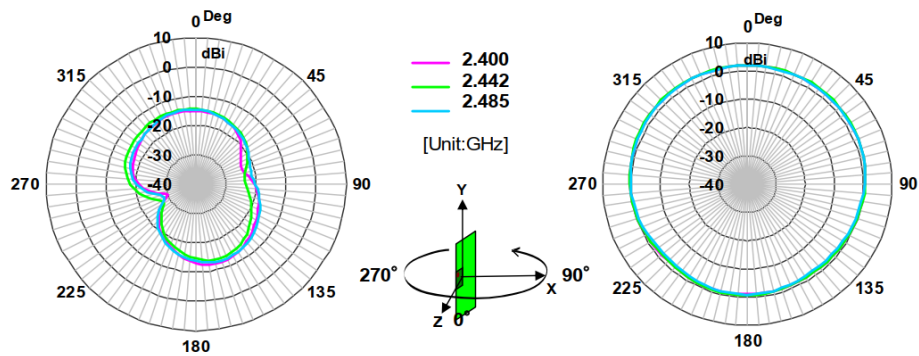
Horizontal Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-4.50	-3.50	-2.84
Maximum[dBi]	0.42	1.37	2.30
Minimum[dBi]	-29.11	-29.74	-40.66

Vertical Polarization

Frequency[GHz]	5.150	5.500	5.850
Average[dBi]	-2.89	-2.23	-3.18
Maximum[dBi]	-0.68	0.24	-1.24
Minimum[dBi]	-15.19	-20.29	-19.75



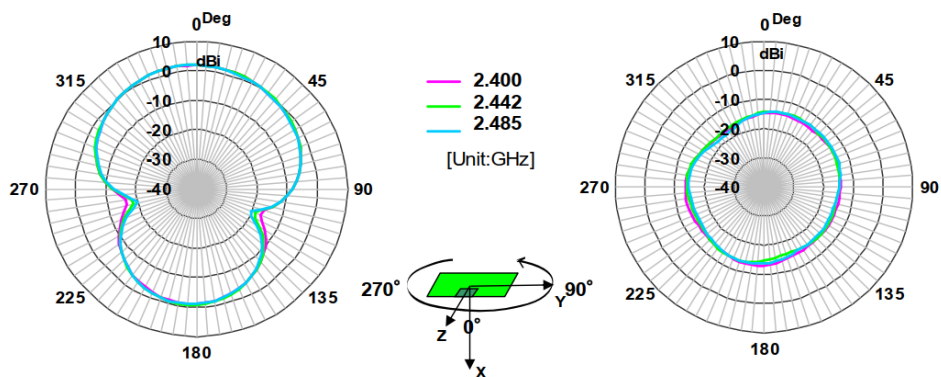


Horizontal Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	-16.54	-16.59	-16.37
Maximum[dBi]	-12.01	-13.47	-12.72
Minimum[dBi]	-30.09	-27.57	-28.66

Vertical Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	0.57	0.67	0.35
Maximum[dBi]	2.02	2.13	1.90
Minimum[dBi]	-1.35	-1.43	-2.16

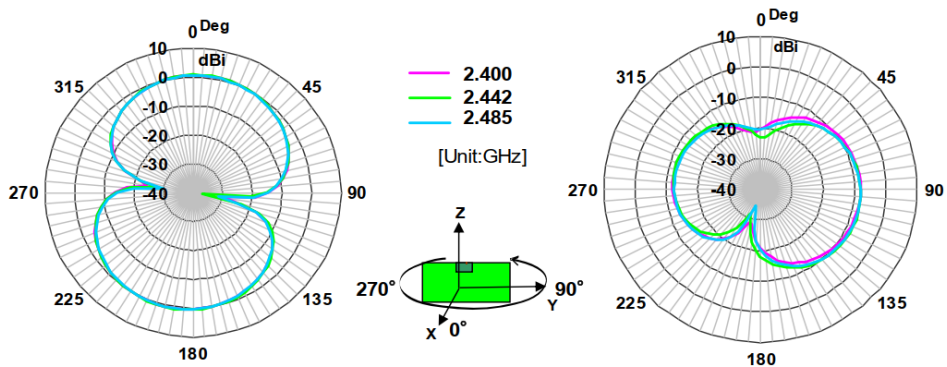


Horizontal Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	-2.27	-2.13	-2.37
Maximum[dBi]	1.94	2.08	1.96
Minimum[dBi]	-17.08	-18.95	-20.38

Vertical Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	-14.44	-14.68	-14.79
Maximum[dBi]	-12.83	-13.39	-13.42
Minimum[dBi]	-17.10	-16.69	-18.01



Horizontal Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	-2.32	-2.22	-2.51
Maximum[dBi]	0.69	0.81	0.54
Minimum[dBi]	-30.39	-36.66	-31.21

Vertical Polarization

Frequency[GHz]	2.400	2.442	2.485
Average[dBi]	-12.31	-12.26	-12.40
Maximum[dBi]	-8.06	-7.88	-7.97
Minimum[dBi]	-28.70	-31.60	-34.56

H-Pol.

V-Pol.