



A111 + lens

Antenna Datasheet v1.0



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1 Revision History

Revision	Comment
v1.0	Released version



2 A111 Antenna specification

The antennas (Tx, Rx) are integrated in the A111 package (AiP).

A111 Antenna specification	Description
Number of antennas	1 Tx, 1 Rx
Type of antenna	Folded dipole antennas, integrated in package (AiP)
Frequency range	57-64 GHz
Antenna peak gain	6 dBi

Table 2.1 A111 Antenna specification

Antenna in Package (AiP) dimensions are shown in figure 2.1.

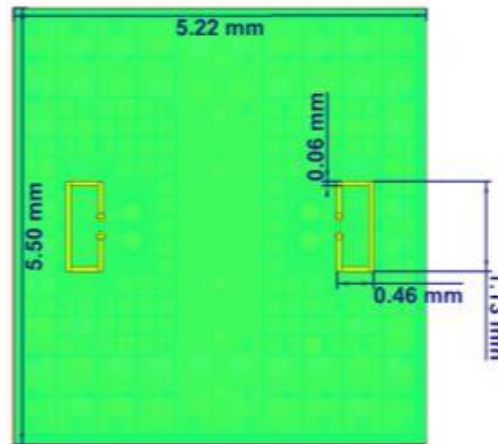


Figure 2.1 A111 Antenna in Package (AiP) dimensions



The A111 radiation pattern, Horizontal plane and Elevation plane, is shown in figure 2.2 and figure 2.3.

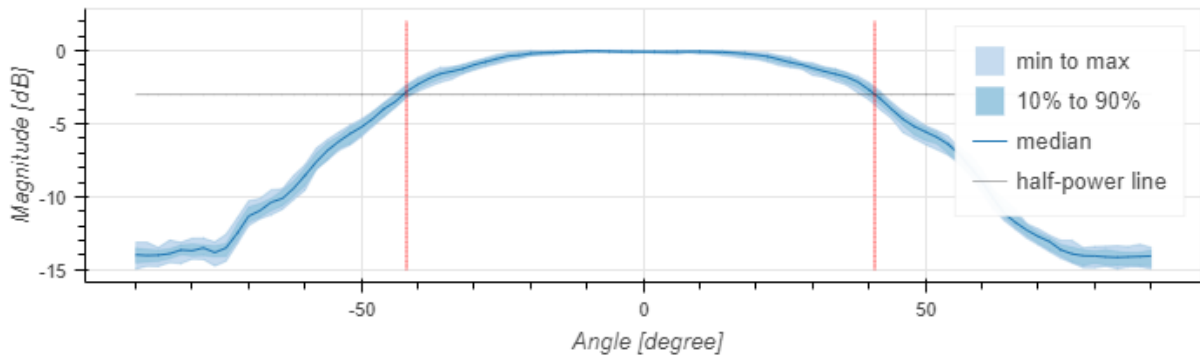


Figure 2.2 A111 normalized radiation pattern at H-plane

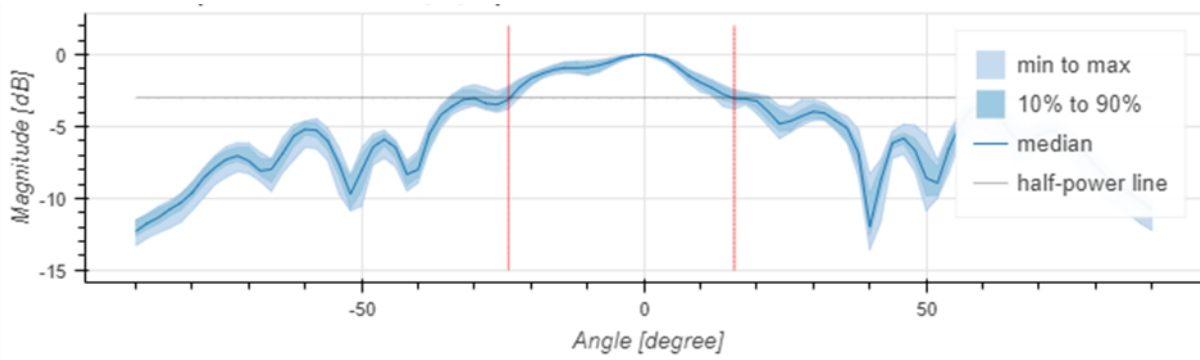


Figure 2.3 A111 normalized radiation pattern at E-plane



Figure 2.4. HBL lens diameter 36.3 mm and height 9 mm



Figure 2.5. FZP lens diameter 36.3 mm and height 7.8 mm

Table 2.2 Radiation properties of lenses, FS – Free space

Lens	Max gain (dB _{FS})	HPBW-E (degree)	HPBW-H (degree)
HBL	9	10	12
FZP	8	9	8

