

## **LG2851(C0) Box Module Antenna Specification**

Version 0.1 – January 20, 2023

**LG2851-Antenna Specification** 

LG Electronics Finland Lab Oy LG Electronics, Inc.



## **1 Antenna Definition**

LG2851 C0 operate with array antenna with horizontal polarization in package substrate, so called Antenna in Package (AiP). With rotating antenna module 90 degrees, vertical polarization can be implemented.

\*Please refer to the operational description for this section in detail beacuase of the confidential information.



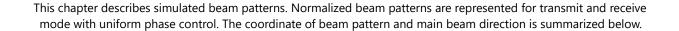
## **2 Antenna Specification**

This chapter describes the array antenna specifications of LG2851 C0, including operating frequency, radiation characteristics, return loss and antenna impedance.

Parameters			Min.	Тур.	Max.	Units
LG2851 C0						
	Antenna Type Polarization		Patch Array Antenna			
			Horizontal Polarization			
	Operating Frequency		57.24		65.88	GHz
	Transmit and receive mode	Number of Antenna Elements		32		
		Peak Realized Gain	18.6		20	dBi
		Peak Beam Direction (Phi/Theta)		0 / +90		Degree
		HPBW	14.5		18.1	Degree
		Side lobe level	-15.5		-14.5	dB
	Return Loss				-10	dB
	Impedance			50		Ohm

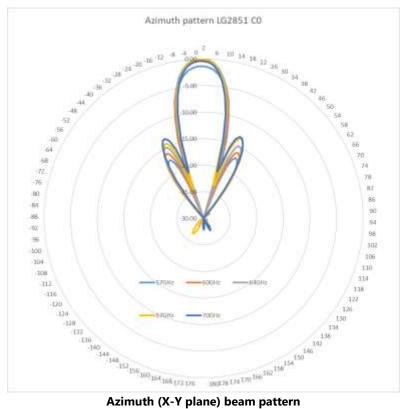


## **3 Radiation Pattern**

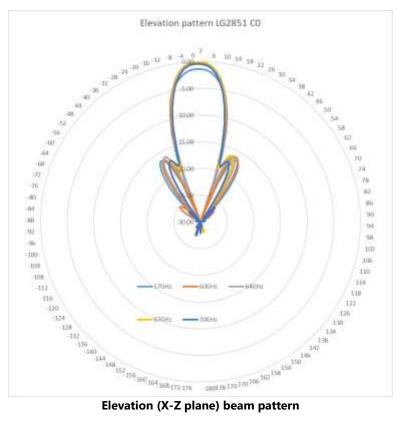


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Azimuth (X-Y plane) beam pattern



Elevation (X-Z plane) beam pattern