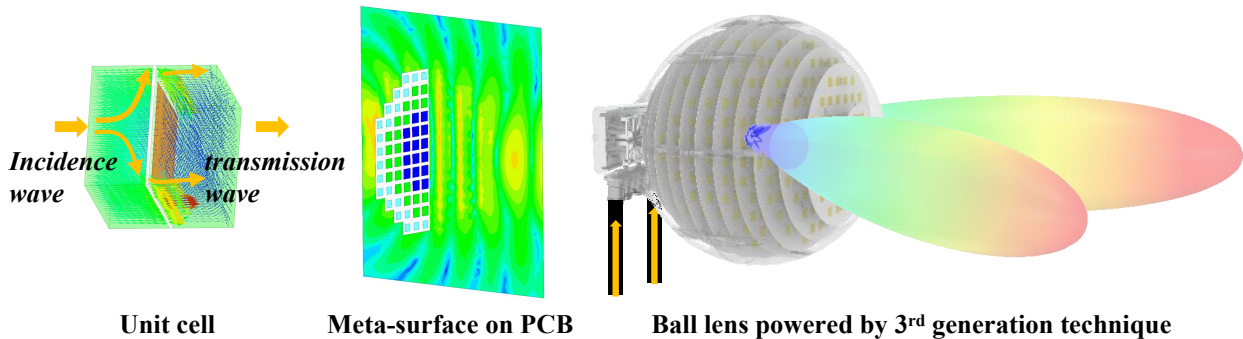


# Model SL11009A, 1710-2690 MHz ball lens antenna with 3<sup>rd</sup> generation lens technique of artificial EM meta-surface



Powered by Shenglu Telecommunication's 3<sup>rd</sup> generation lens antenna technique, the Luneberg ball lens is achieved by artificial EM meta-surfaces fabricated on multiple layers of printed circuit board, where the effective refractive index is precisely controlled by the transmit-array of meta-cells to fulfill the RF wave converging and the radiation efficiency.



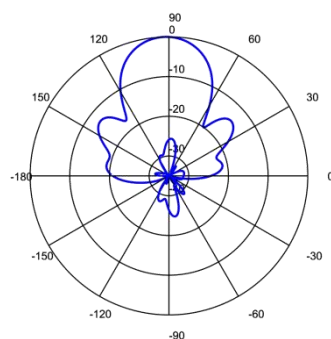
Performance Features			
Frequency range (MHz)	1710-1830	1885-2025	2515-2675
Polarization (°)	±45°		
Gain (dBi)	≥13.5	≥14.2	≥16.0
Half power beam width (°)	34±1	31±2	23±2
Front-to-back ratio (dB, 180°±30°)	≥22	≥25	≥25
Cross polarization ratio (dB, 0°)	≥20		
Upper side-lobe suppression (dB)	≥16		

Dimension/Weight	
Lens size (mm)	Φ=265
Net weight of lens (kg)	0.35

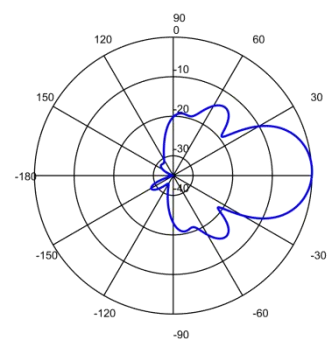
*\*Powered by 3<sup>rd</sup> generation lens technique*



## Pattern (1710-2690 MHz)



Horizontal pattern



Vertical pattern