

74212012v01

Log Periodic Antenna 690-4200 10/11dBi

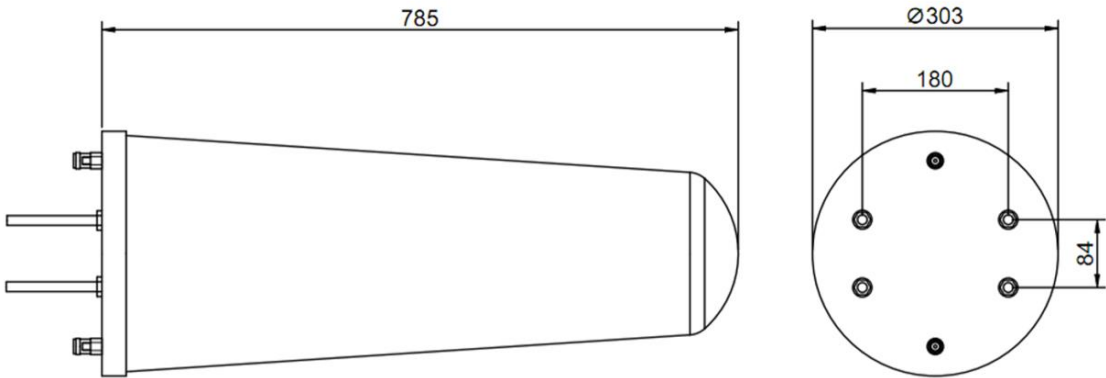
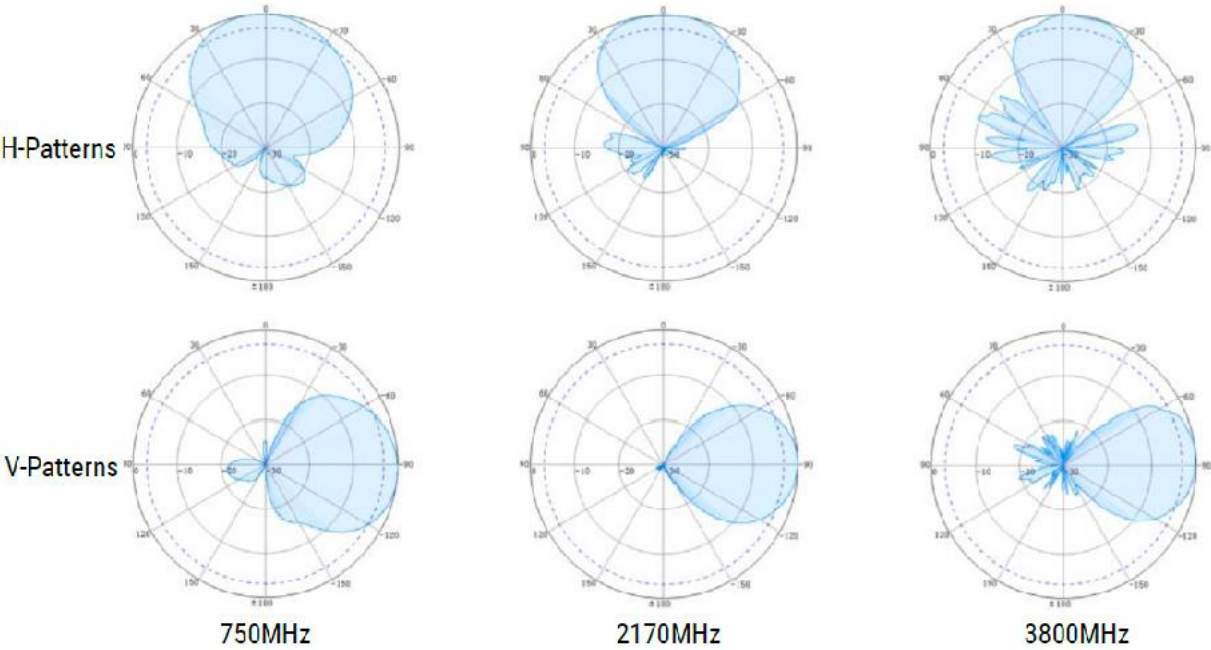
Log Periodic Antenna
V/H-Pol 2-port
690-4200

Type	74212012v01					
Frequency Range (MHz)	690-960	960-1425	1425-1695	1695-2170	2170-2695	3300-4200
Gain (dBi, typ.)	9.5	10.5	10.5	11.0	11.0	11.0
VSWR	≤ 1.8	≤ 1.8	≤ 1.6	≤ 1.6	≤ 1.6	≤ 1.6
Polarization	Vertical / Horizontal					
PIM3 (dBc), @2x43dBm	≤ -150					
Horizontal Beamwidth (°)	68	65	63	61	58	65
Vertical Beamwidth (°)	53	50	49	48	45	53
Isolation (dB)	≥ 20	≥ 20	≥ 20	≥ 28	≥ 28	≥ 28
Front-to-Back Ratio (dB)	≥ 20	≥ 20	≥ 20	≥ 25	≥ 25	≥ 22
Input Impedance (Ω)	50					
Max. Input Power (W)	200					
Lightning Protection	DC Grounded					
Connector Type	2 x 4.3-10 Female					
Dimension (mm)	303 x 303 x 785					
Weight (kgs)	4.31					
Reflector Material	Copper					
Radome Material	Fiber Glass (RAL7035)					
Rated Wind Velocity (km/h)	200					
Operating Temperature (°C)	-40 to +65					
Wind Load (N) (@150km/h Wind Speed)	Frontal: 58.8 Lateral: 185.2 Rearside: 96.4					
Mounting	4 x M12 Threaded Rods (L=162mm) with Washers and Nuts 2 sets of brackets included for pole size Ø38-Ø70mm All mounting materials and accessories in 316 stainless steel					

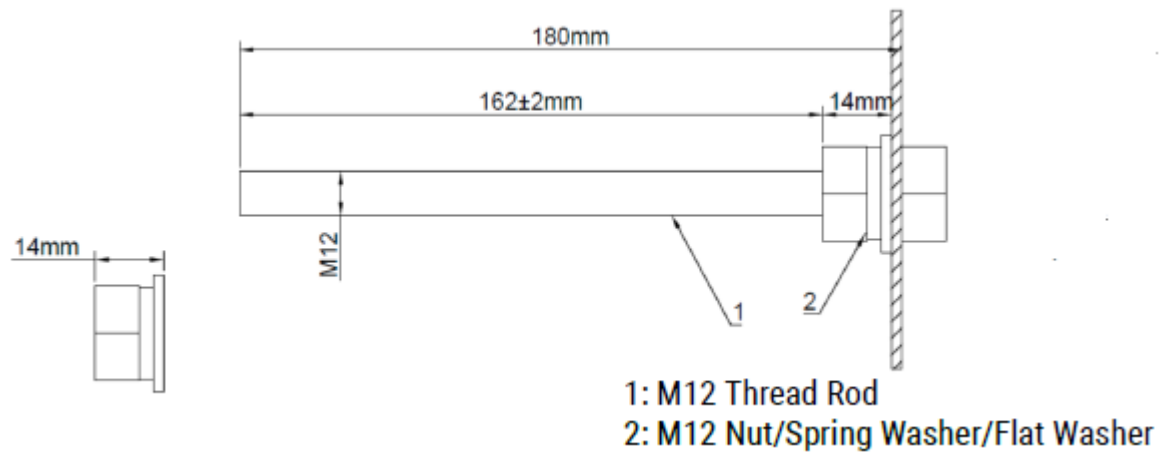


Complaint to Environmental Standards	Dry Heat	GB/T 2423.2	(IEC 60068-2-2)
	Cold	GB/T 2423.1	(IEC 60068-2-1)
	Damp Heat	GB/T 2423.3	(IEC 60068-2-78)
	Change of Temperature	GB/T 2423.22	(IEC 60068-2-14)
	Salt Mist	GB/T 2423.17	(IEC 60068-2-11)
		GB/T 10125	(ISO 9227)
	Ingress Protection	GB/T 4208	(IEC 60529)
	Vibration	GB/T 2423.10	(IEC 60068-2-64)
	Drop Test	GB/T 2423.8 & 4857.5	(ISO 2248)

Typical Radiation Patterns



Mounting thread rod Illustration



Note:

The antenna has passed a wind load / pressure test according to YD/T 2866-2015 for the use of the passive antenna in mobile communication system. During test the antenna was subject to alternating pressure with certain number of alternations of load according to different wind speed / pressure difference.

The antenna exceeds the standard as follows:

- ☑ Pressure difference according to YD/T 2866: 257.02N*
- ☑ Pressure difference during test: 403.2N

Based on the above test, the antenna withstands the pressure curve exerted by passing trains inside the tunnel (8 kPa).

*Calculated based on antenna surface and rated wind speed.