

## AMC-ANT-2J2183-C315N

### 5G NR connector mount antenna

#### Features

- 5G NR:
  - 617 – 960MHz
  - 1427 – 2690MHz
  - 3300 – 5000MHz
  - 5150 – 5925MHz
- Connector mount
- N-Type male connector
- Ground plane independent
- Dimensions: 232 x Ø 20 (Ø 16)mm



## 1. Antenna and electrical specifications

Parameters	5G NR Antenna			
Technologies	5G, 4G, 3G, 2G			
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/Cat-Mx/CAT-NBx/NB-IoT/3G/2G			
Frequency (MHz)	617 - 960	1427 - 2690	3300 -5000	5150 - 5925
Band (MHz)	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
5G NR Bands	N5, n8, n12, n20, n28, n71, n81, n83	n1, n2, n3, n7,n25, n34, n38, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77,n78, n79	
4G LTE Bands	B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, 43, B48, B49, B52	B46, B47, B252, B255
3G CELL Bands	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22	
2G CELL Bands	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
CDMA CELL Bands	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		
Return Loss (dB)	~-8.1	~-13.7	~-9.7	~-10.0
VSWR	~2.6:1	~1.6:1	~2.0:1	~2.5:1
Efficiency (%)	~35.3	~52.2	~50.2	~52.1
Peak Gain (dBi)	~1.3	~1.5	~2.8	~2.6
Average Gain (dBi)	~-4.6	~-2.9	~-3.1	~-2.9
Impedance (Ohms)	50			
Polarisation	Linear			
Radiation Pattern	Omni-directional			
Max Input Power (W)	25			
Connector Type	N-Type male			

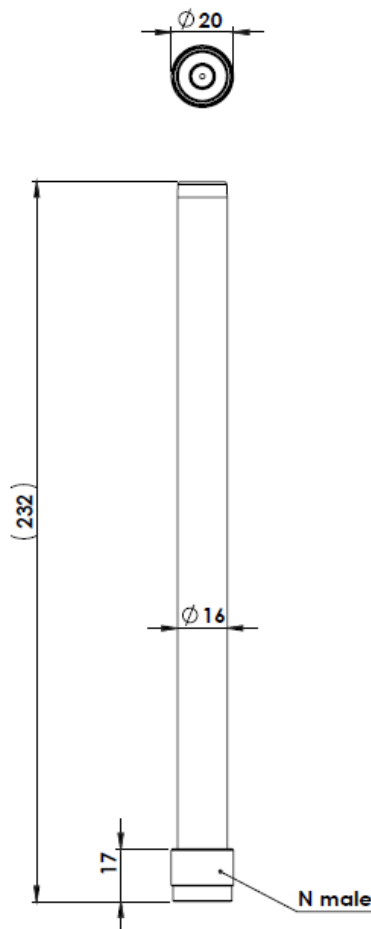


**Measurement conditions:**

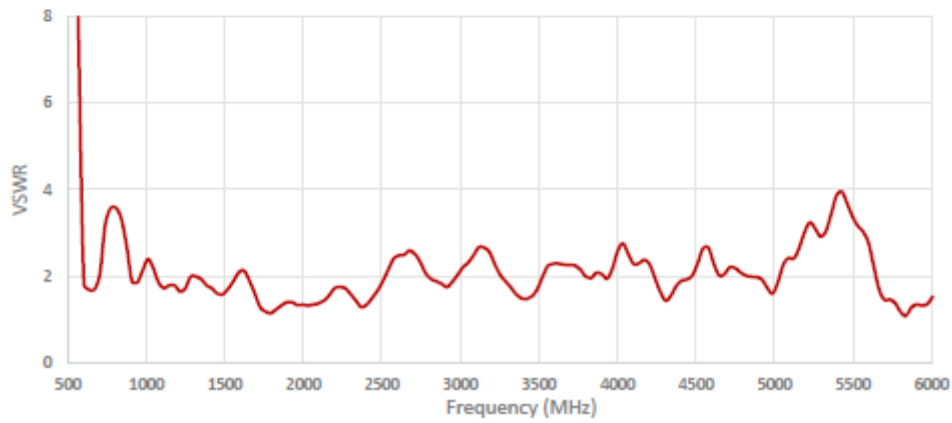
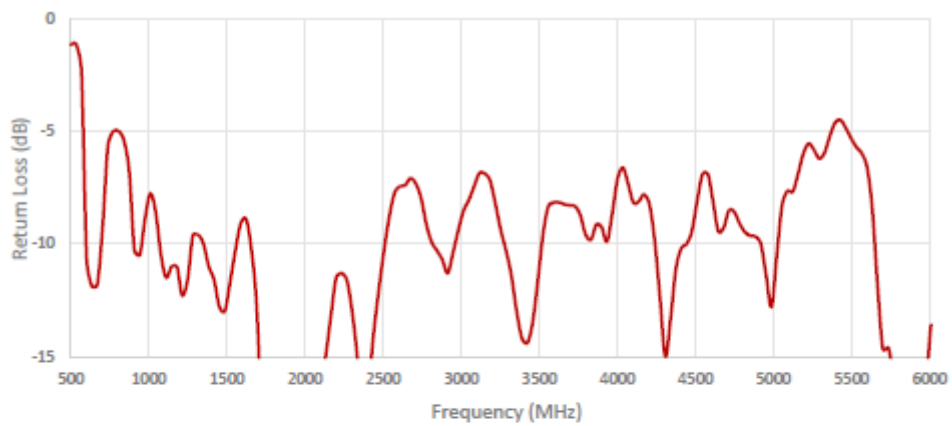
- Free space
- Measured in certified CTIA 3D Anechoic chamber

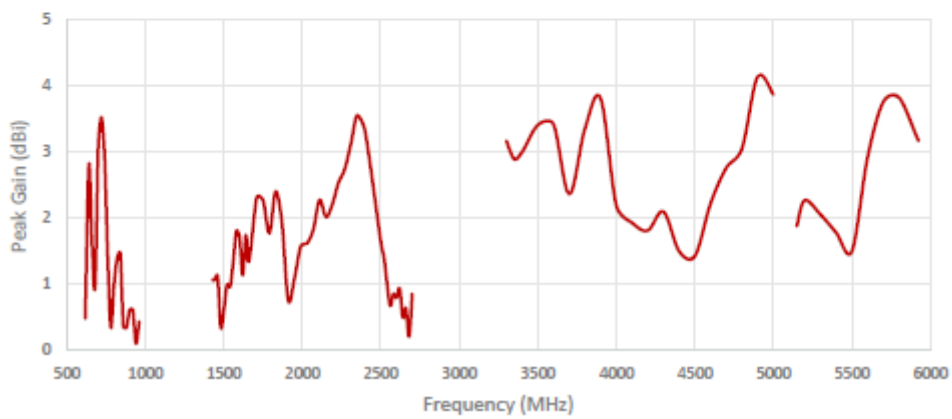
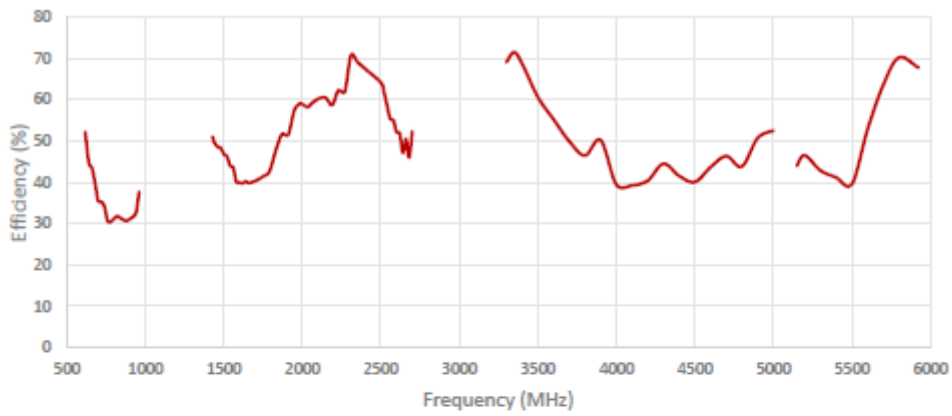
**2. Mechanical and environmental specifications**

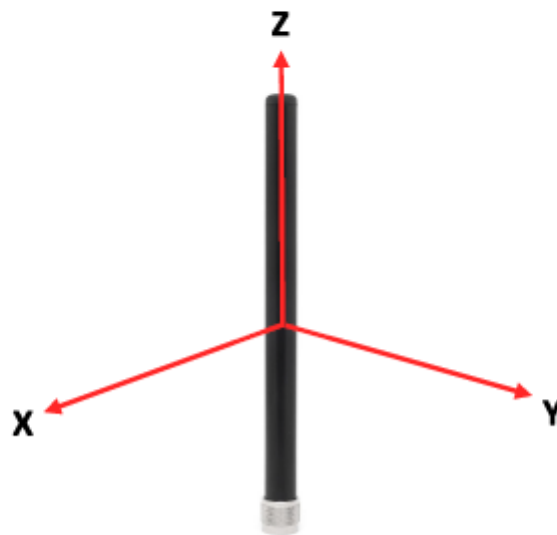
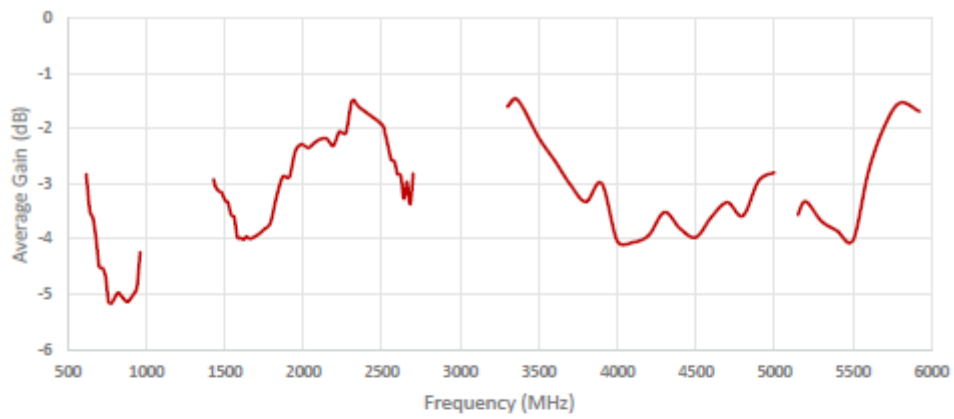
<b>Mounting Type</b>	Connector mount
<b>Dimensions (mm)</b>	232 x Ø 20 (Ø 16)
<b>Radome</b>	ASA
<b>Radome Colour</b>	Black or White
<b>Operating Temperature (°C)</b>	-40 to +85
<b>Storage Temperature (°C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS



### 3. Antenna parameters

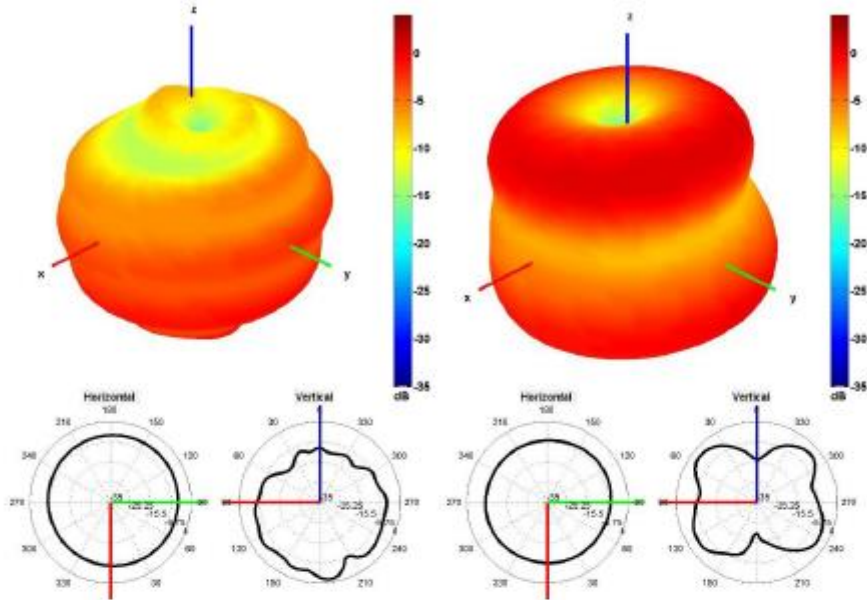




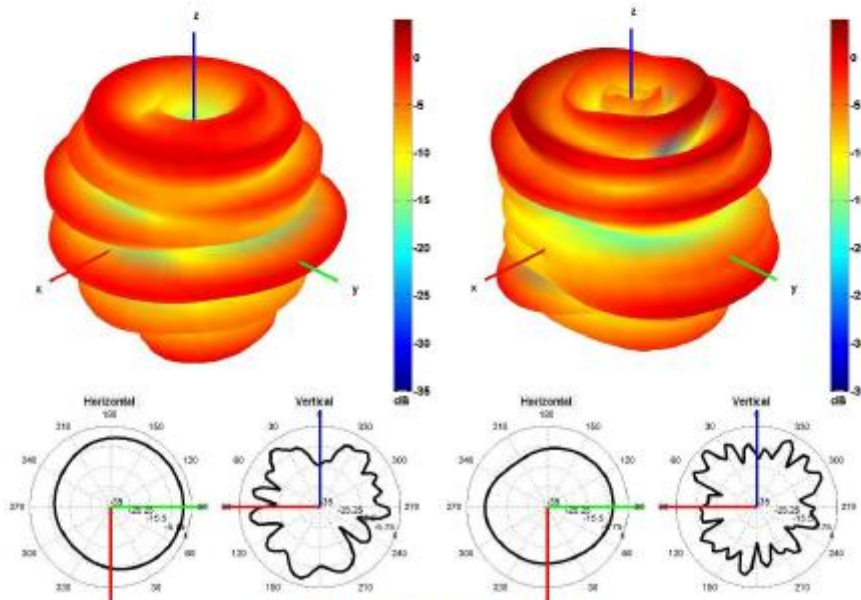


Radiation pattern reference





750 and 2500 MHz Radiation pattern



4500 and 5500 MHz Radiation pattern

