| RFA-100-015 | CUSTOMER PRODUCT SPECIFICATION SHEET | RoHS Compliant |
|---|---|---|

RFA-100-015: SMA ANTENNA WITH ELBOW, 617MHz to 2700MHz, ADDITIONAL SNAP 45°

Material and plating:

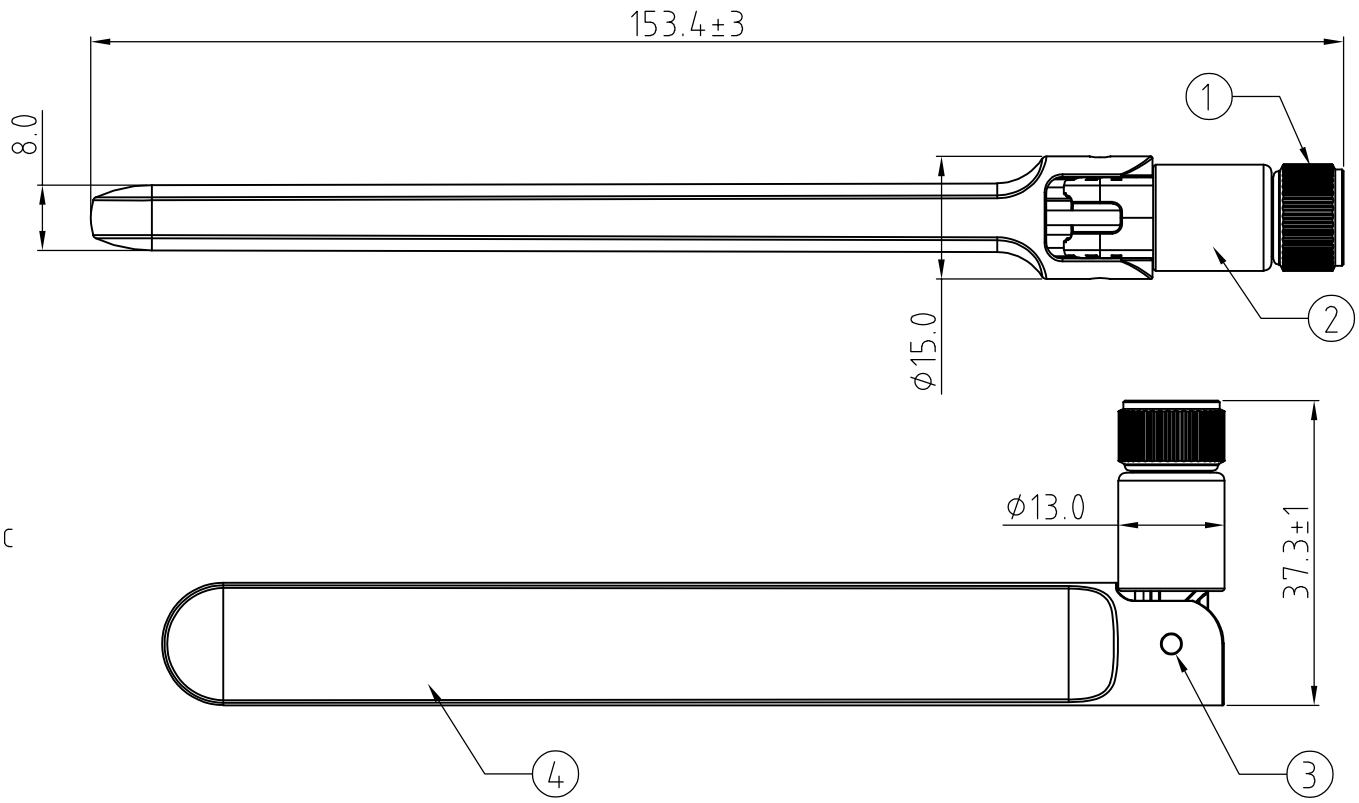
1. SMA Plug: Brass, Nickel plating
2. Bottom Base: PC+PBT, Black
3. Rivet: POM, Black
4. Cap: ABS, Black

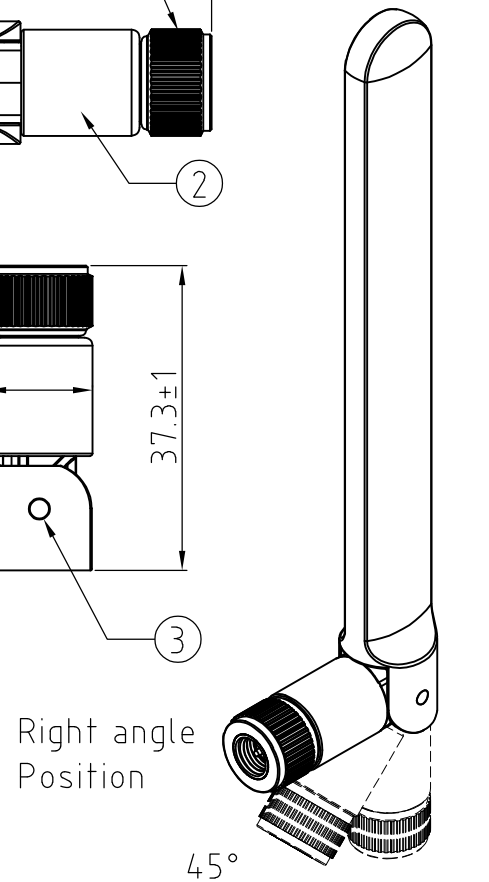
Electrical

Frequency Range:
617MHz~960Mhz,
1710MHz~2700Mhz
Impendence: 50Ω
VSWR: 3.5 max.
Radiation: Omni
Gain: 3dBi +/-0.5
Polarization: Vertical
Maximum Power: 1W

Mechanical & Environment

Operating Temperature: -20°C to +65°C
Weight: 14.4g
Lead free ROHS




| REV. | DATE & DRN | |
|---|---|---|
| 1.0 | 04/08/23 - CC | RELEASE |
| 1.1 | 13/05/25 - NYW | ADD GCT LOGO. |

| | | | |
|---|---|---|---|
| Scale: NTS | THIRD ANGLE | Unstated Tolerances: .X ± 0.30 .XX ± 0.20 .XXX ± 0.10 ANGLES | Material SEE NOTE |
| Drawn: CC | | | |
| App'd: PH | Title SMA Antenna | | NOT TO SCALE |
| Date: 13 MAY '25 | Revision: 1.1 | | Unit: mm |

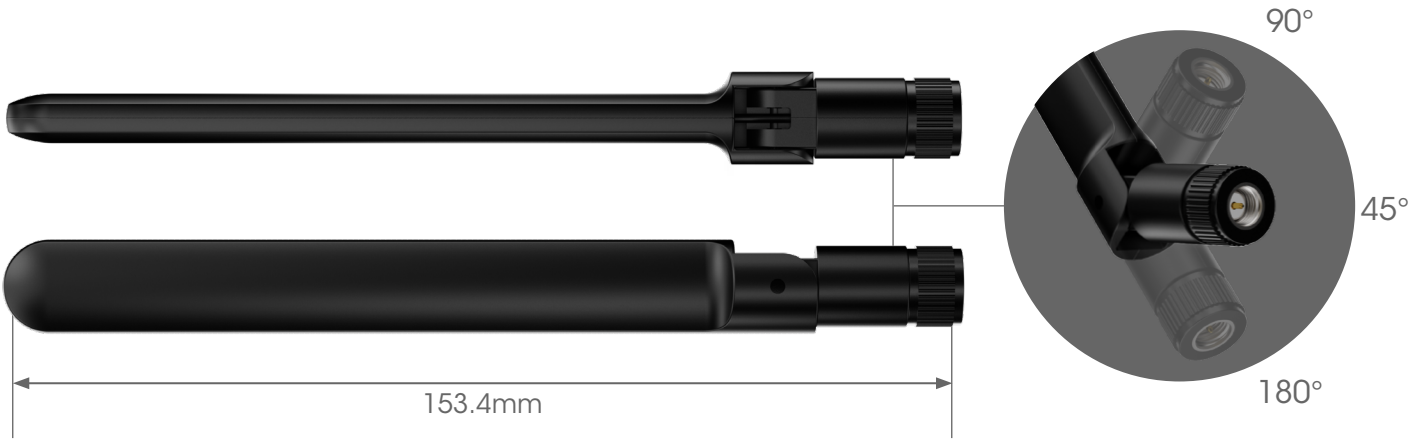
GCT GradConn
www.gct.co www.gradconn.com



Type: RFA-100-015
RFA-100-015
Drawing Number:
Sheet 1 of 1
Drawing © E and O E

# RFA-100-015 Antenna

RF Antenna Stick | Dual Band | SMA Plug interface




## Electrical Specifications

| Description | Specification |
|---|---|
| Frequency Range/s | 1710-2100MHz |
| Antenna Type | Stick Antenna |
| Number of Bands | 2 |
| Radiation Pattern | Omnidirectional |
| Polarization | Linear |
| Max. Input Power | 1 Watt |
| Impedance | 50Ω |

| Frequency | Return Loss | Peak Gain | Average Efficiency |
|---|---|---|---|
| 1710-2100MHz | < -8.5 dB | 6.25 dBi | 42.6% |

## Mechanical Specifications

| Description | Specification |
|---|---|
| Lengh | 153.4 ± 3mm |
| Swivel Elbow | 180°, 90°, 45° |
| Weight | 15.4g |
| Termination | SMA |
| Radome Material | PC+PBT |
| Operating Temprature | -20°C to 65°C |
| Compliance | RoHS |

## Applications

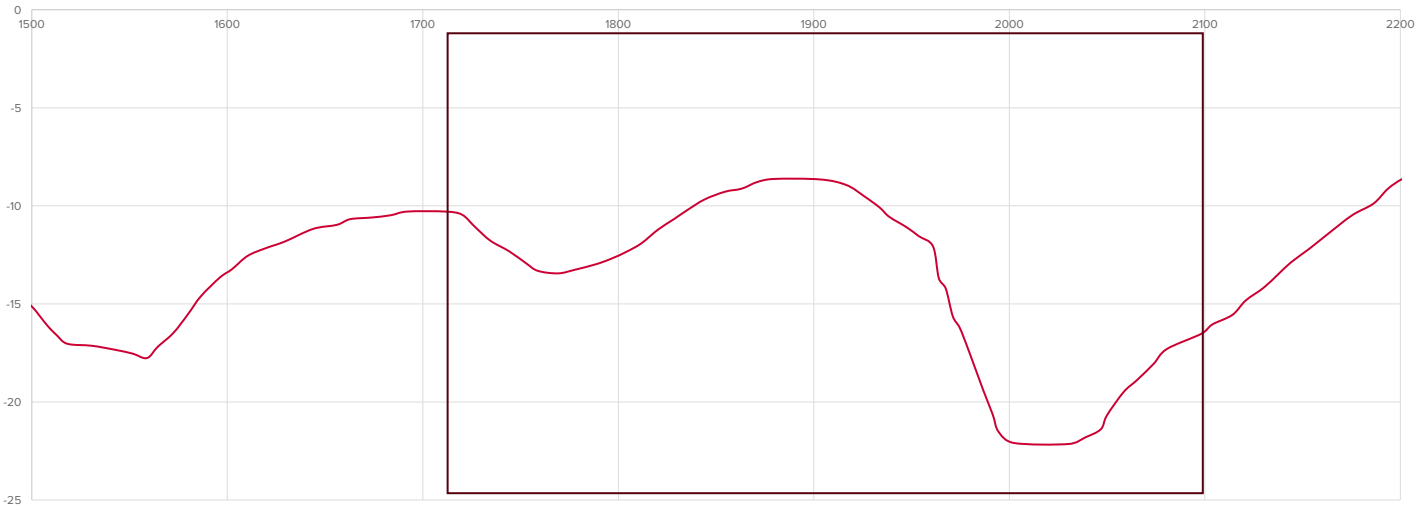
**Cellular Networks:** LTE Band 3 (1800 MHz), 5G NR Band n1 (2100MHz)
**IoT & M2M:** LTE Cat-1 / Cat-M1 using Bands 3 & 1
**Private Networks:** Industrial and enterprise LTE deployments

**Disclaimer:** The image shown is for illustration purposes only and may not be an exact representation of the product.

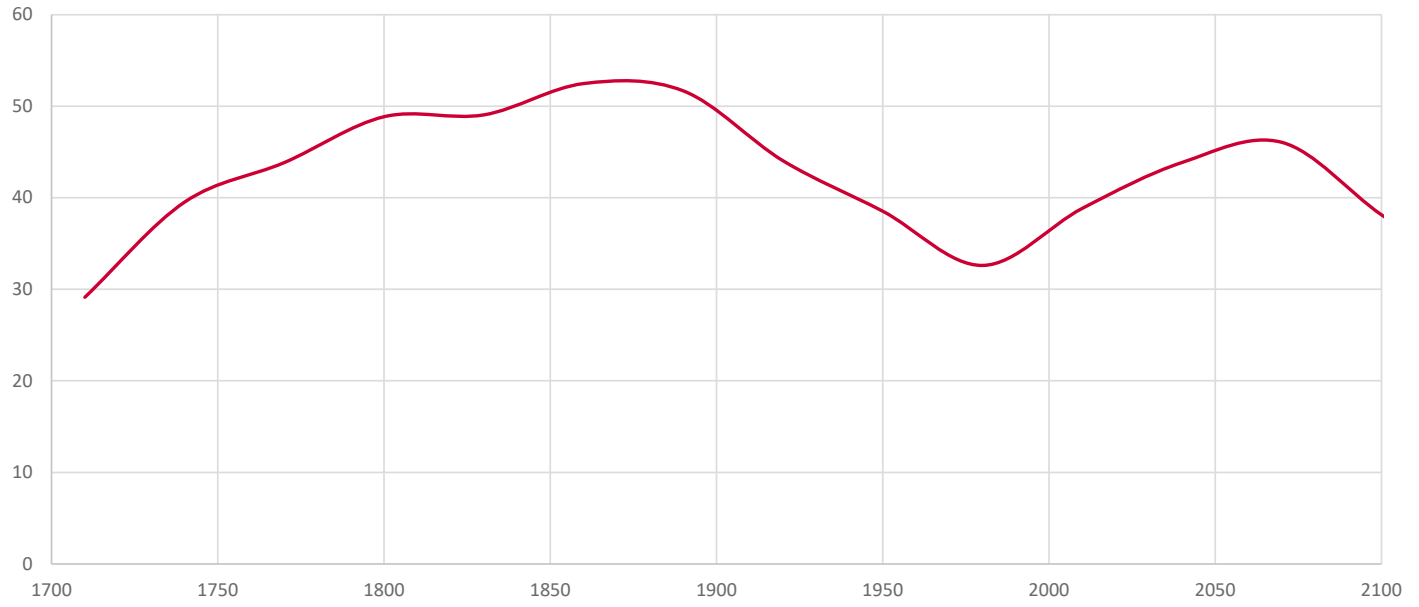
## Performance

The test setup and measurements were conducted in a 3D anechoic chamber

## Return Loss (dB) Chart




## Efficiency

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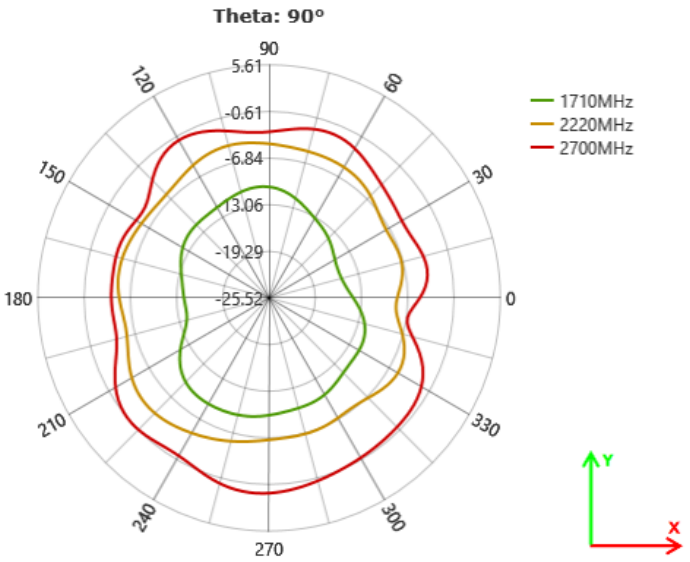
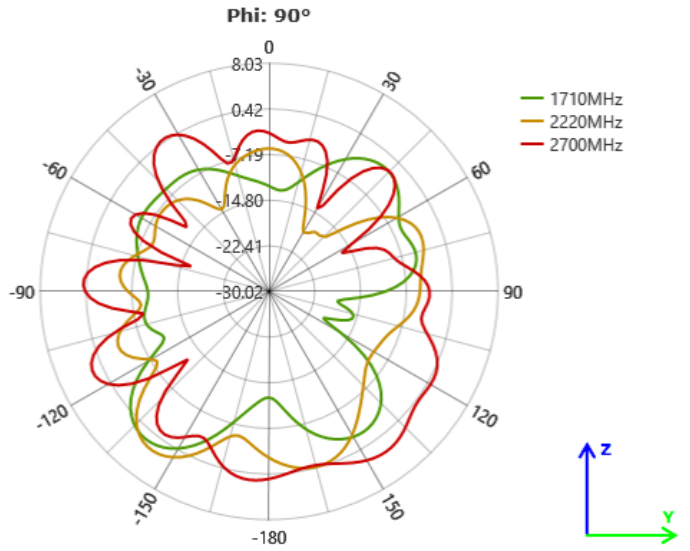
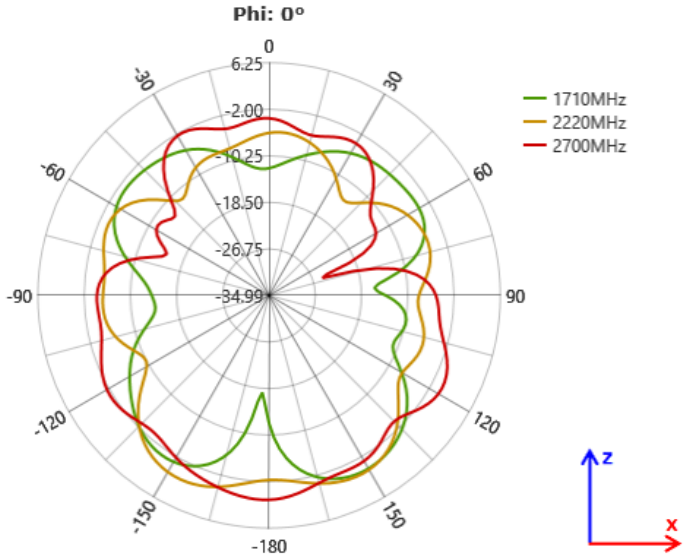
## Radiation Patterns

1710-2100MHz

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