



5G/4G/3G/2G, NB-IoT, Cat-M, GNSS, Wi-Fi 6 WORLD BAND ANTENNA

Part Numbers: 2195889-1, 2195889-2

FEATURES & BENEFITS

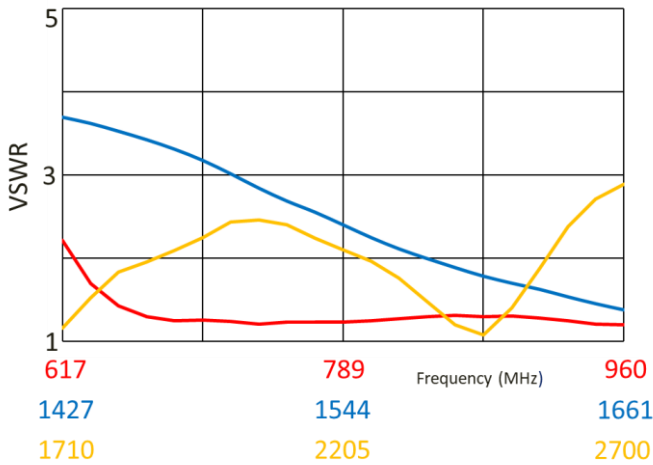
- Wide Band coverage: LTE, 5G, NB-IoT, Cat-M, GNSS and Wi-Fi 6 Dual Band
- 90 degree hinge type SMA terminal mount
- No matching circuits required
- Similar performance for connection via coax cable and coax connector on PCB

SPECIFICATIONS

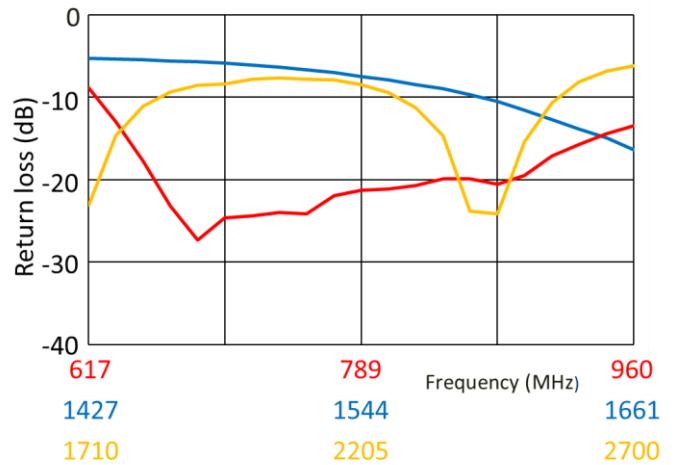
| | | | | | | |
|---|--|-----------|-----------|-----------|-----------|-----------|
| Frequency Range (MHz) | 617 - 960 | 1427-1661 | 1710-2700 | 3300-4200 | 4400-5000 | 5150-5925 |
| VSWR | < 2.3:1 | < 3.7:1 | < 2.9:1 | < 2.4:1 | < 2.1:1 | < 2.0:1 |
| Average Efficiency | 47 % | 63 % | 76 % | 74 % | 64 % | 65 % |
| Peak Gain | 1.6 dBi | 2.5 dBi | 3.7 dBi | 1.9 dBi | 2.1 dBi | 4.5 dBi |
| Average Gain | -3.3 dBi | -2.3 dBi | -1.3 dBi | -1.3 dBi | -2.0 dBi | -1.9 dBi |
| Power Handling | 10 Watt cw | | | | | |
| Feed Point Impedance | 50 ohms unbalanced | | | | | |
| Polarization | Linear | | | | | |
| Size | 19.91mm x 135.80 mm (Unfolded) 19.91mm x 115.00 mm (Folded) | | | | | |
| Weight | < 16 g | | | | | |
| Mounting | SMA Male Terminal mount | | | | | |
| Mating Connectors | SMA Female | | | | | |
| Operating Temperature | -40 to +85°C | | | | | |
| Storage Temperature | -40 to +85°C | | | | | |
| Packaging Specification | Bag & Box | | | | | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website. | | | | | |
| Data measured in free space with hinge at 90 degree bend | | | | | | |

RF DATA

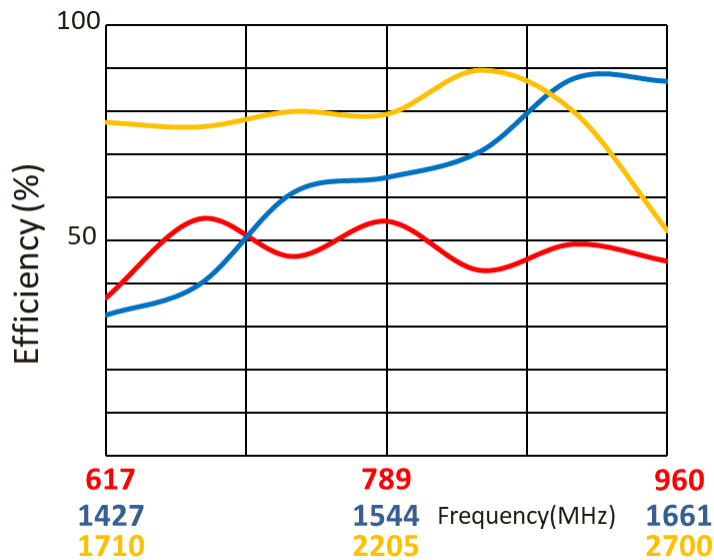
VSWR



Return Loss



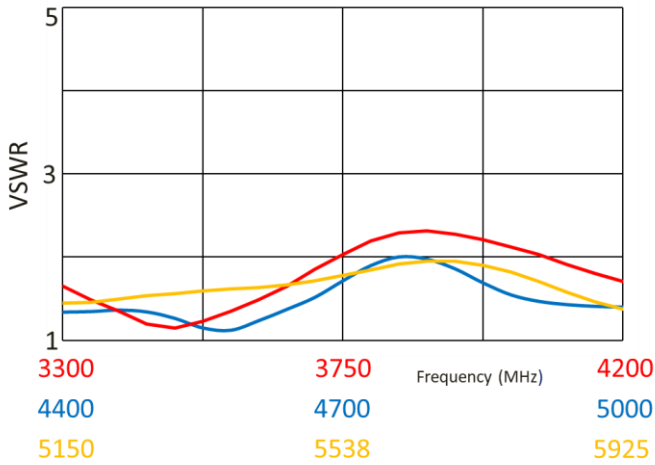
Efficiency



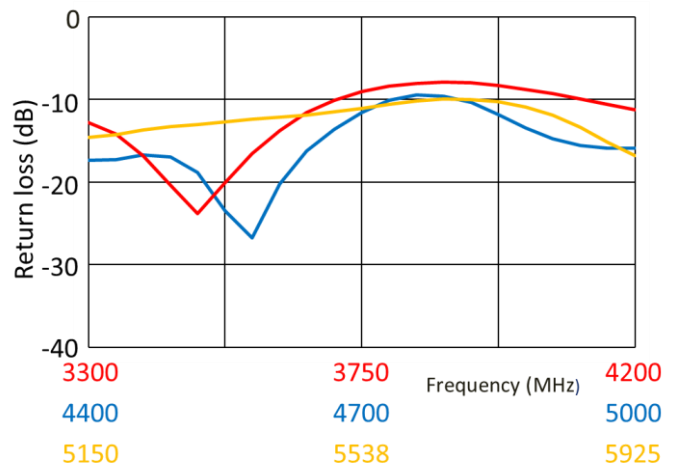
Data measured in free space with hinge at 90 degree bend

RF DATA

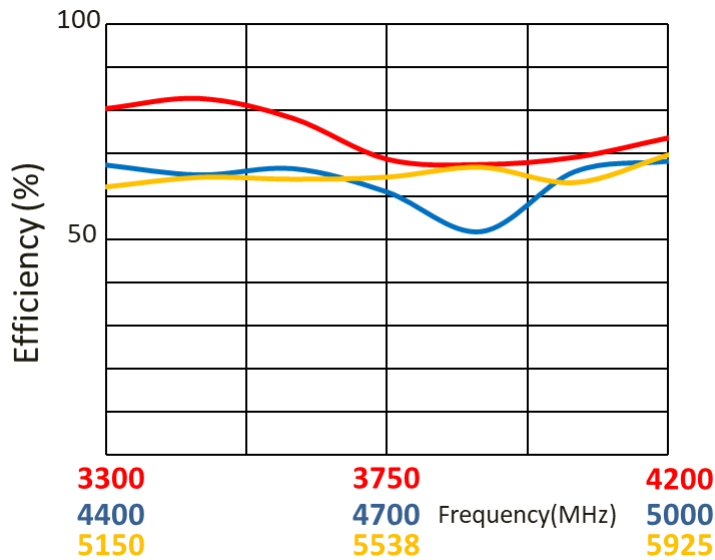
VSWR



Return Loss



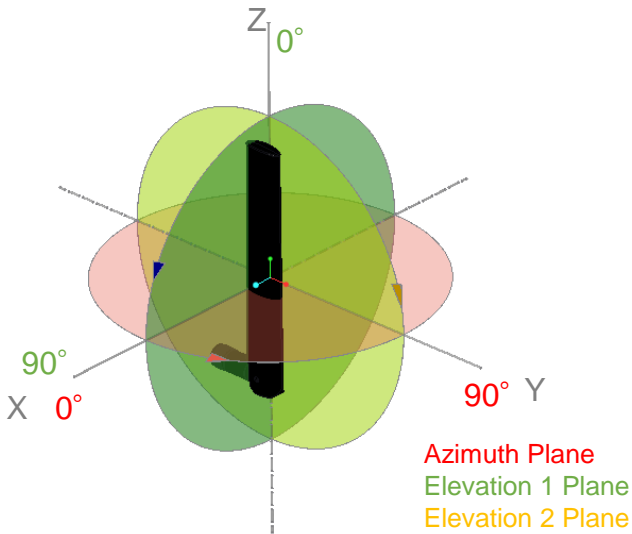
Efficiency



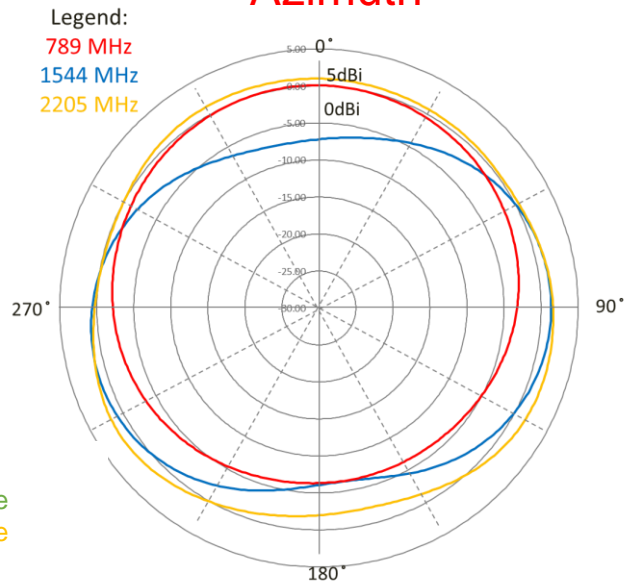
Data measured in free space with hinge at 90 degree bend

RADIATION PATTERN

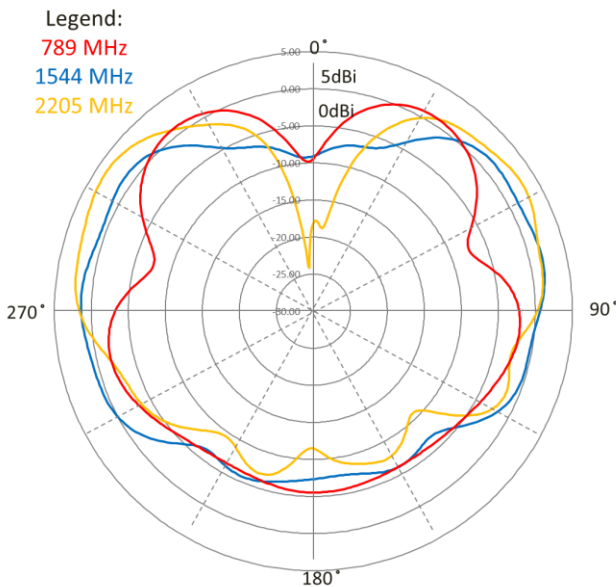
Test setup



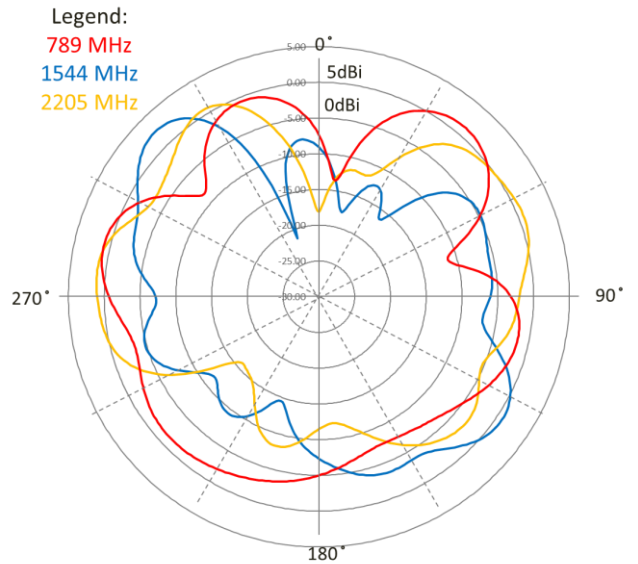
Azimuth



Elevation 1



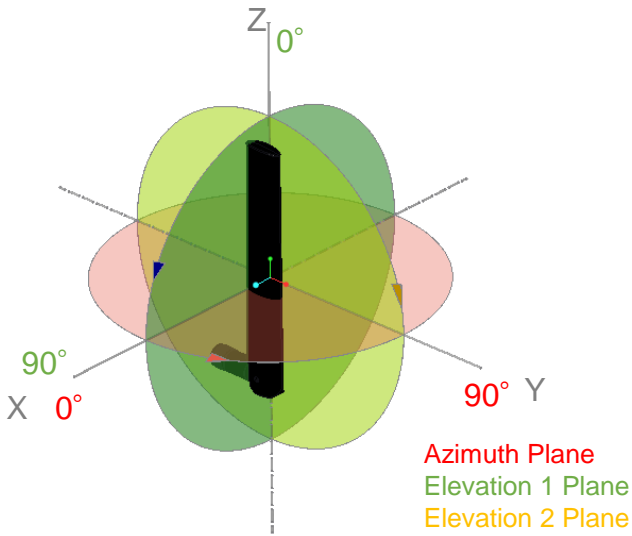
Elevation 2



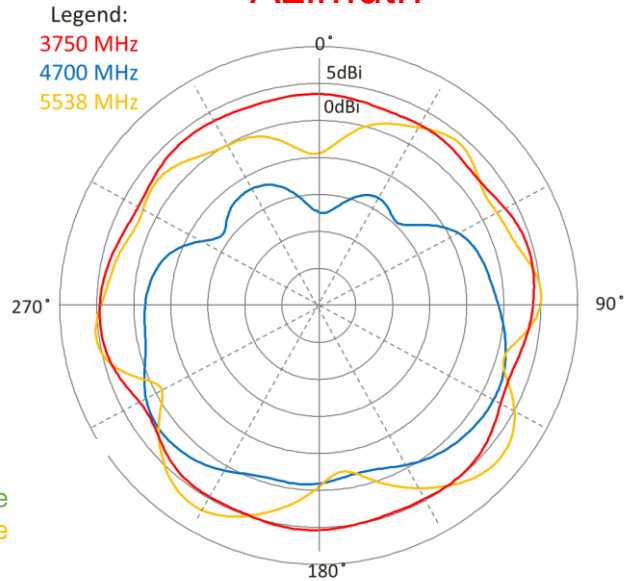
Data measured in free space with hinge at 90 degree bend

RADIATION PATTERN

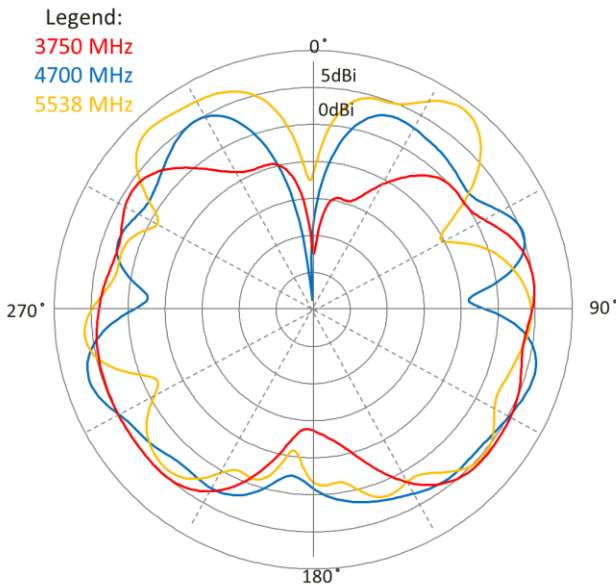
Test setup



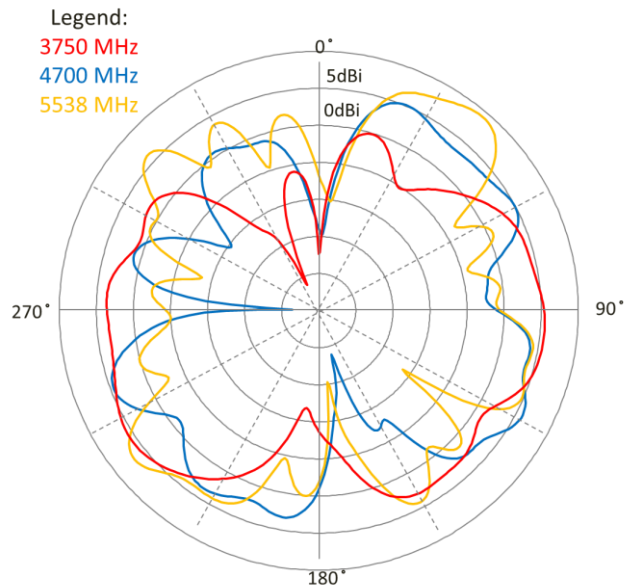
Azimuth



Elevation 1

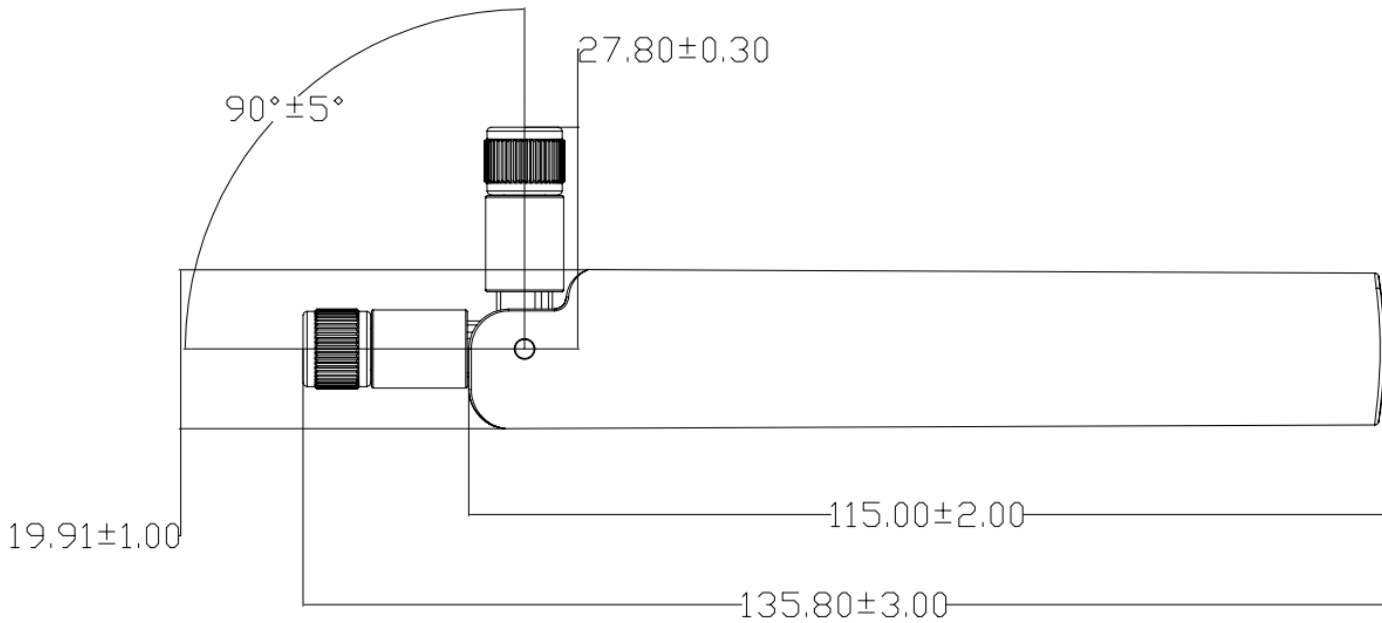


Elevation 2







Data measured in free space with hinge at 90 degree bend

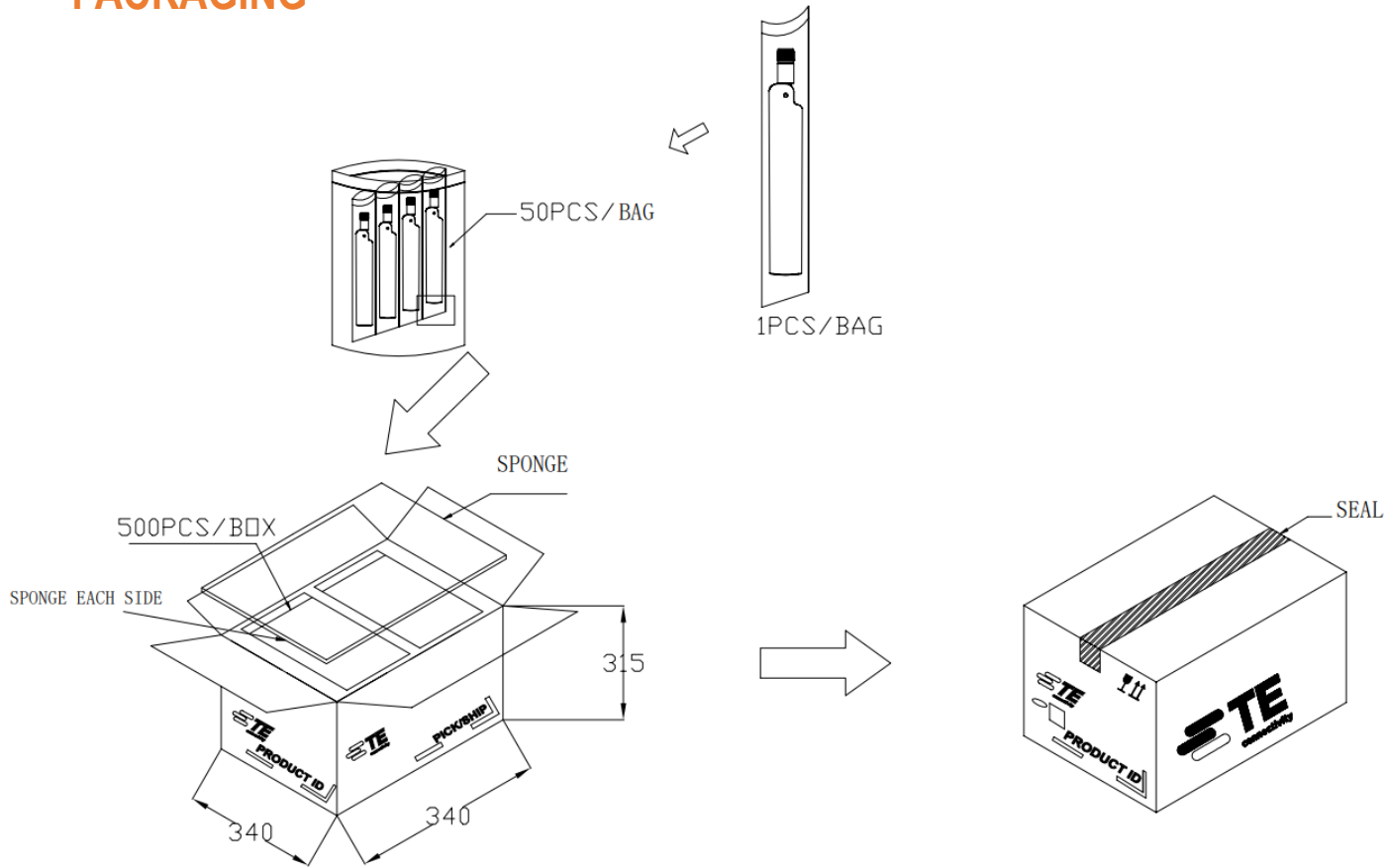
DIMENSIONS



MATING COMPONENTS

| | | | | |
|-------------------|-------|-----------------|---|---|
| 2195889-2 | WHITE | SMA (Male) | 5-1814400-2: SMA JACK, RIGHT ANGLE  | 2016682-2: SMA GEN1 (MHF type), 1.13 cable, Length=100mm 2016682-4: SMA GEN1 (MHF type), 1.13 cable, Length=200mm  |
| 2195889-1 | BLACK | SMA (Male) | 5-1814832-2: SMA JACK, VERTICAL  | 2016694-2: SMA GEN4 (MHF4 type), 1.13 cable, Length=100mm 2016694-4: SMA GEN4 (MHF4 type), 1.13 cable, Length=200mm  |
| PART NUMBER | COLOR | CONNECT OR TYPE | RF CONNECTOR | SMA JACK TO MICRO COAX CABLE ASSEMBLIES |
| MATING COMPONENTS | | | | |

PACKAGING



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