



# METASpan

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

Part Numbers: 2195852-1

### FEATURES & BENEFITS

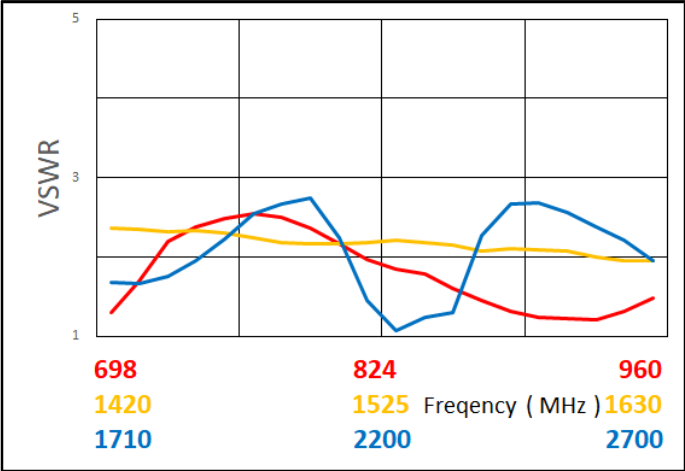
- Omnidirectional coverage
- Tab mount PCB antenna
- Uses MetaSpan technology for World band coverage for 3G, 4G, 5G, NB-IoT and Cat-M
- Wi-Fi 6 dual band and GNSS L1 included
- Best performance with 110mm ground plane length

### SPECIFICATIONS

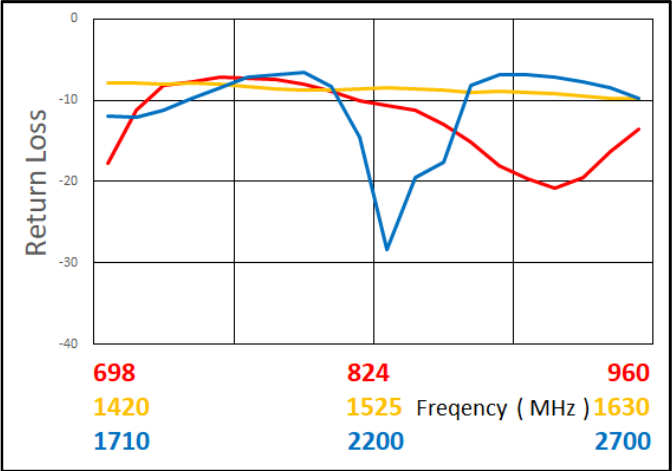
| Frequency Range (MHz)                                                                                                | 698-960                                                                        | 1420-1630 | 1710-2700 | 3200-3800 | 4400-5000 | 5150-5875 |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| VSWR                                                                                                                 | < 2.6 : 1                                                                      | < 2.4 : 1 | < 2.7 : 1 | < 2.6 : 1 | < 1.5 : 1 | < 1.9 : 1 |
| Average Efficiency                                                                                                   | 60%                                                                            | 69%       | 64%       | 73%       | 67%       | 74%       |
| Peak Gain                                                                                                            | 0.2 dBi                                                                        | 2.5 dBi   | 3.3 dBi   | 3.1 dBi   | 3.3 dBi   | 4.5 dBi   |
| Average Gain                                                                                                         | -2.2 dBi                                                                       | -1.6 dBi  | -1.9 dBi  | -1.4 dBi  | -1.7 dBi  | -1.3 dBi  |
| Power Handling                                                                                                       | 10 Watt cw                                                                     |           |           |           |           |           |
| Feed Point Impedance                                                                                                 | 50 ohms unbalanced                                                             |           |           |           |           |           |
| Polarization                                                                                                         | Linear                                                                         |           |           |           |           |           |
| Size                                                                                                                 | 55 x 20 mm                                                                     |           |           |           |           |           |
| Weight                                                                                                               | < 3.5g                                                                         |           |           |           |           |           |
| Mounting                                                                                                             | Tab mounting with plated through holes                                         |           |           |           |           |           |
| Mating Connector                                                                                                     | Tab type                                                                       |           |           |           |           |           |
| 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 and on reference ground plane of 110mm length and 80mm width. Application data may vary. |                                                                                |           |           |           |           |           |

RF DATA

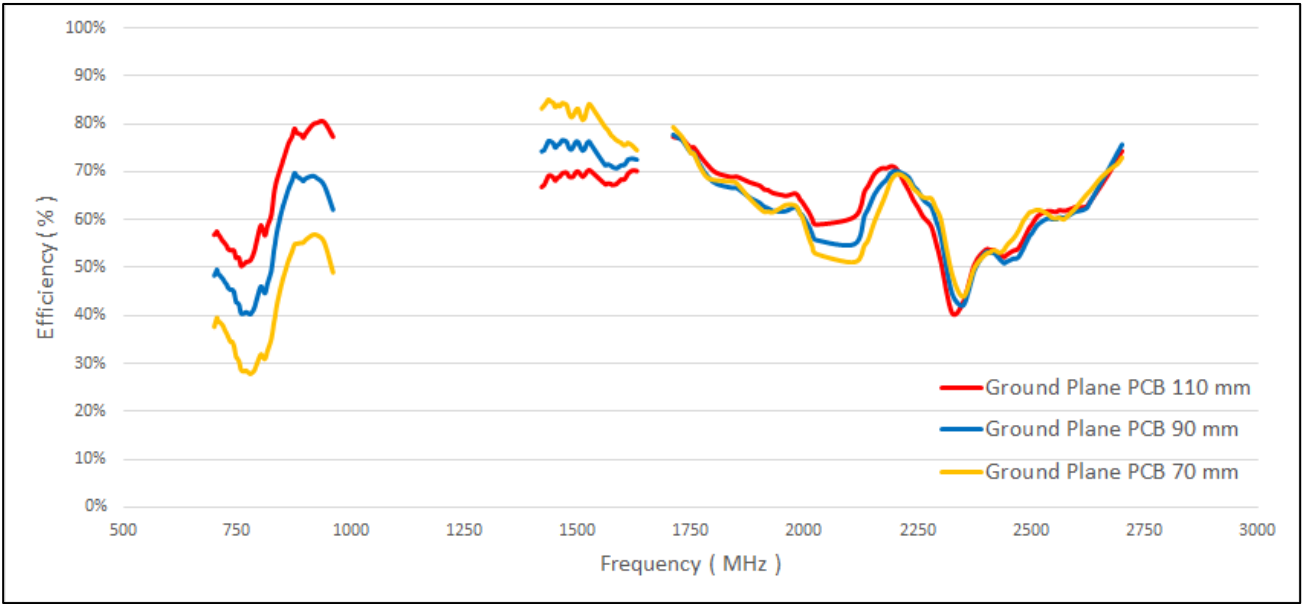
VSWR



Return Loss



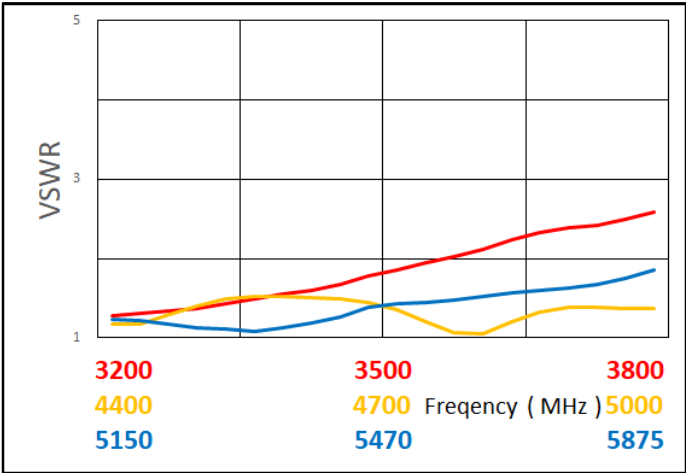
Efficiency vs. Ground Plane Size



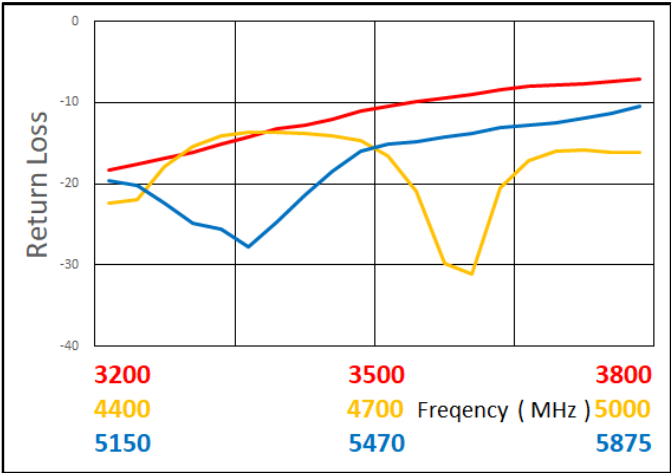
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RF DATA

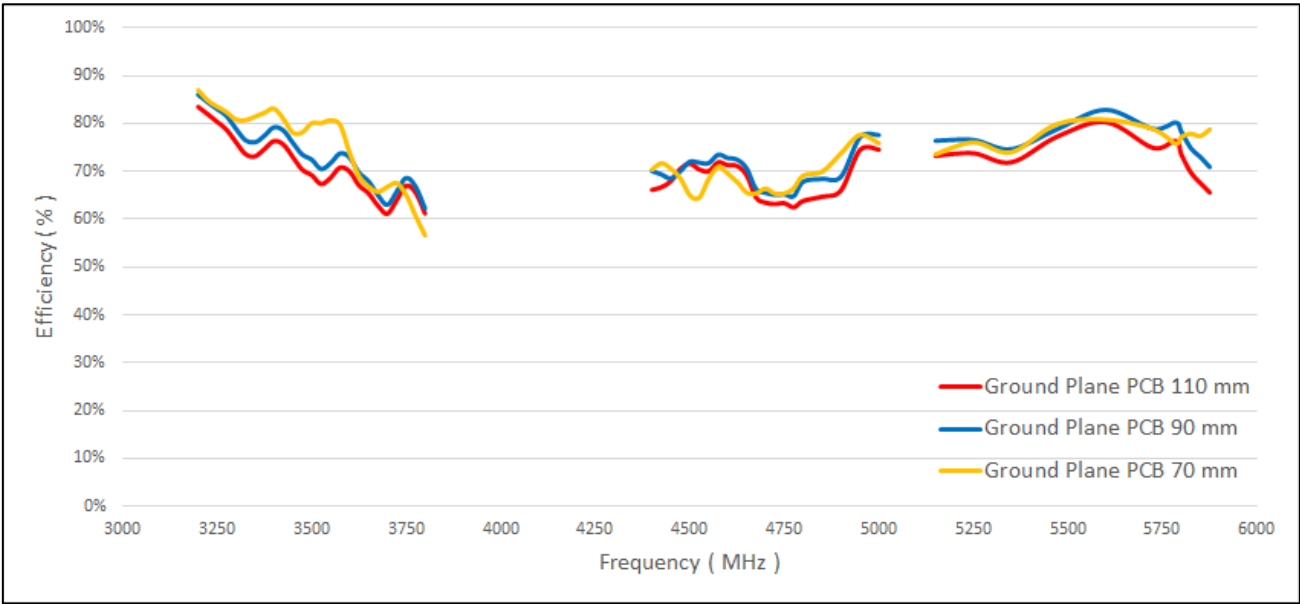
VSWR



Return Loss



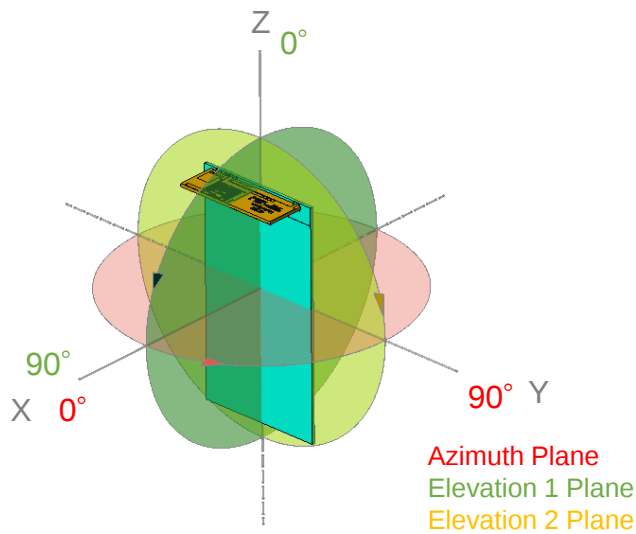
Efficiency vs. Ground Plane Size



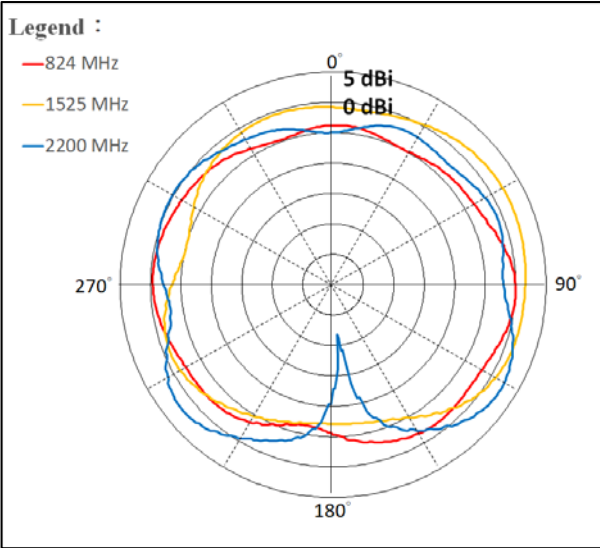
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Application data may vary.

RADIATION PATTERN

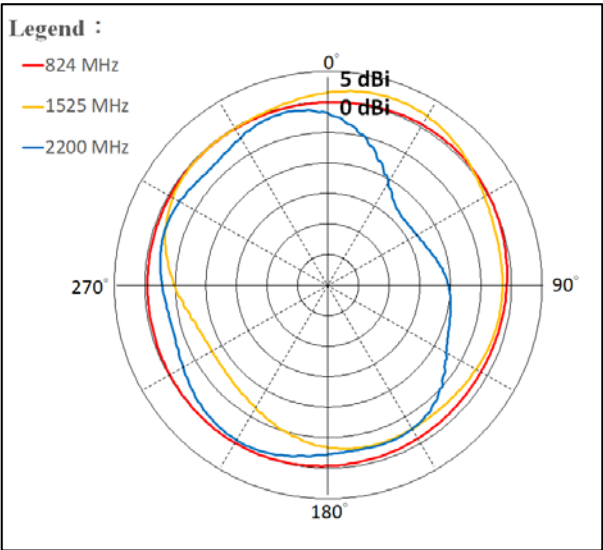
Test setup



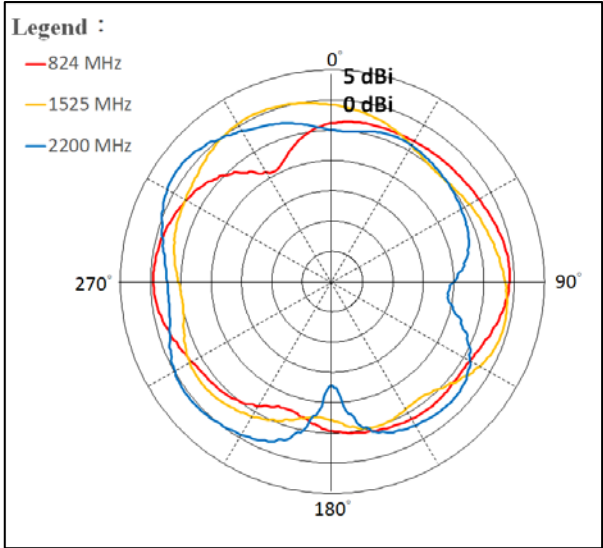
Elevation 1



Azimuth



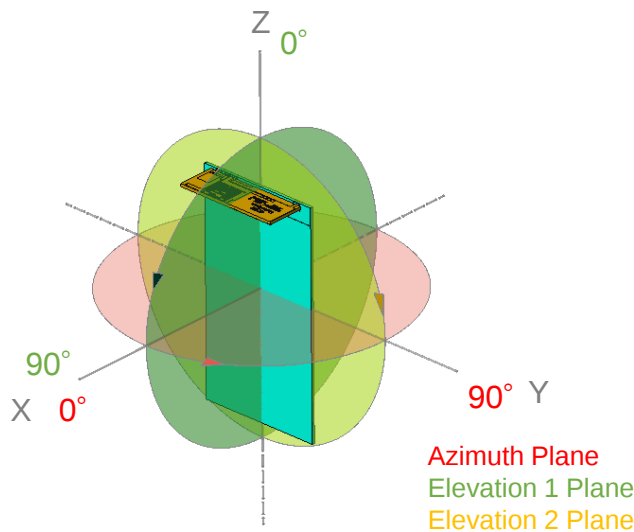
Elevation 2



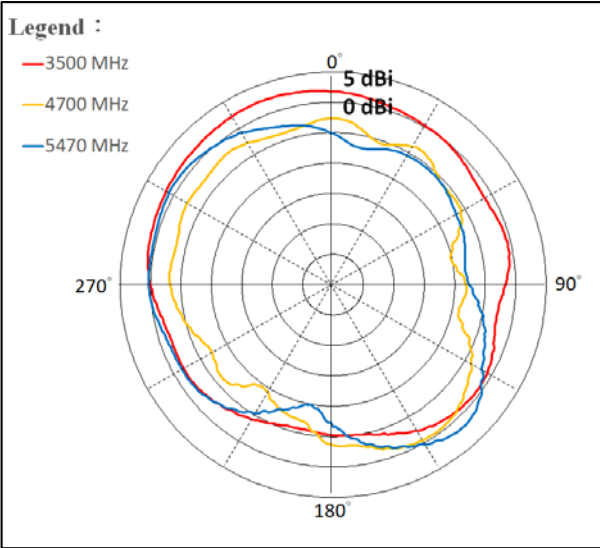
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Application data may vary.

RADIATION PATTERN

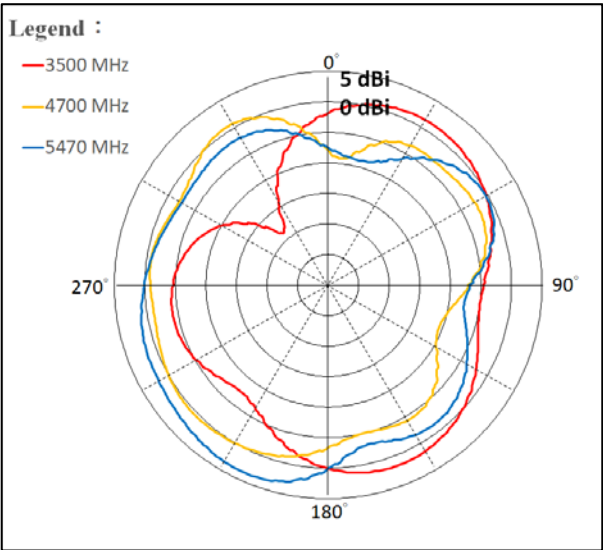
Test setup



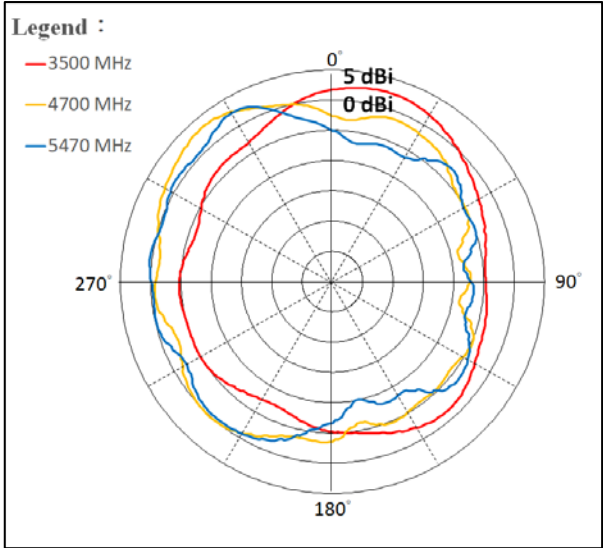
Elevation 1



Azimuth



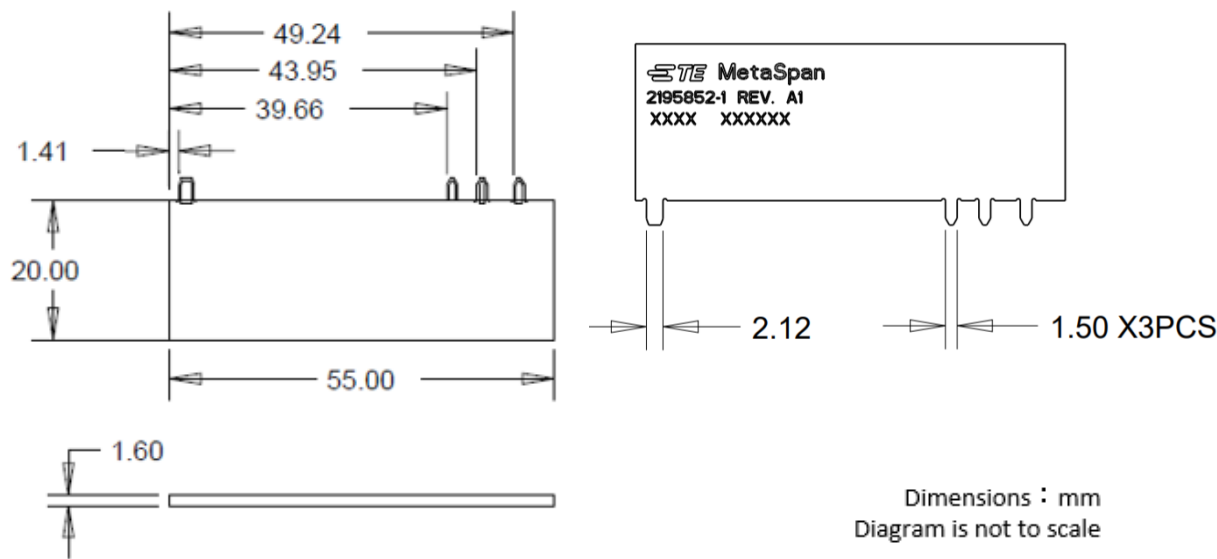
Elevation 2



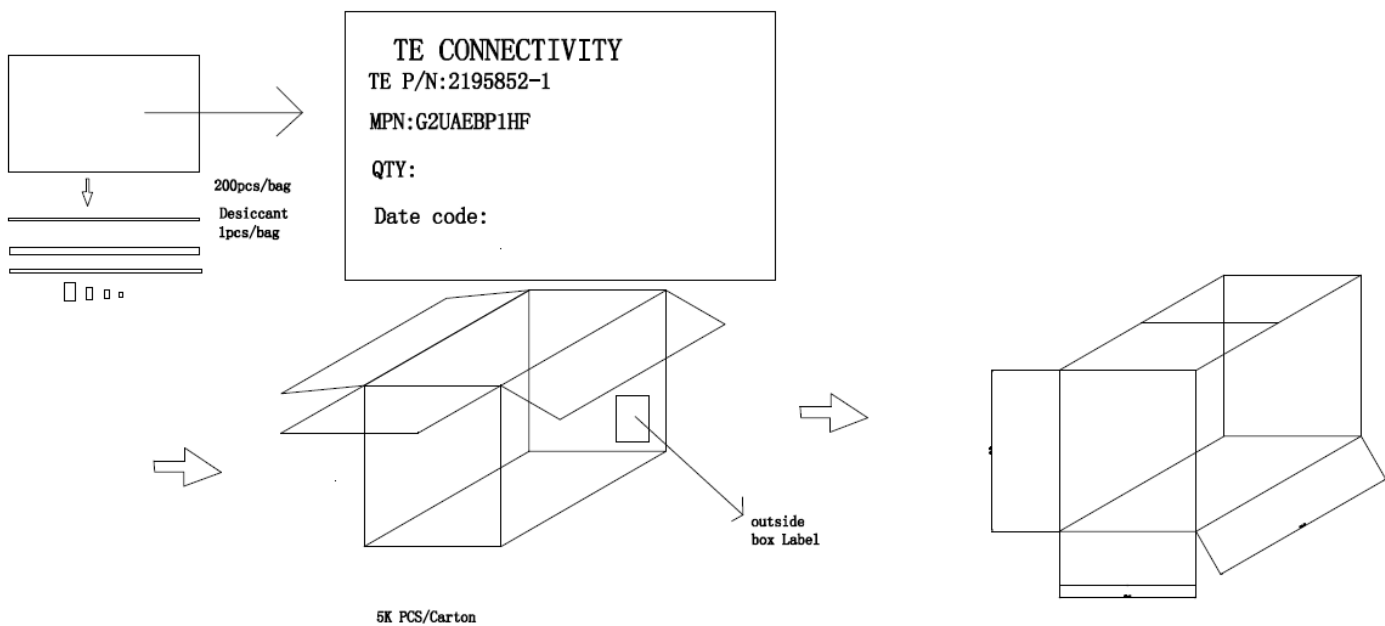
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Application data may vary.



DIMENSIONS



PACKAGING



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

Standard Antenna Solutions

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