



2400-2500 & 5150-5875 MHz DUAL BAND WLAN / BLUETOOTH ANTENNA

Part Number: X-2344656-X

(see page 5 for details)

FEATURES & BENEFITS

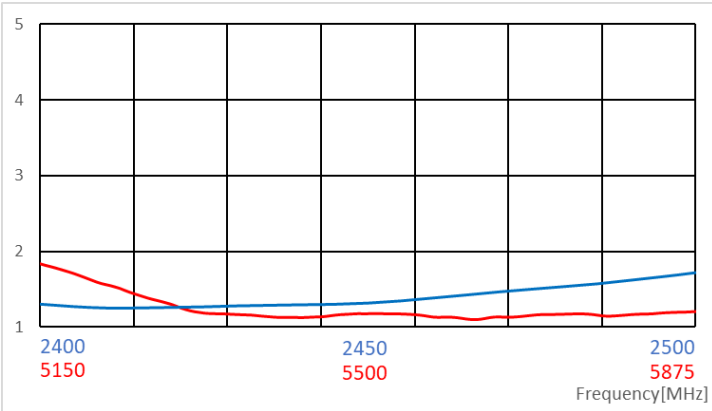
- Adhesive backing on FPC simplifies mounting within the device
- Omnidirectional coverage
- Efficient design reduces power usage
- No matching components required
- Wide selection of micro-coaxial cable lengths from 50 to 200mm

SPECIFICATIONS (Shown as 2344656-1 : Others can vary with different cable lengths.)

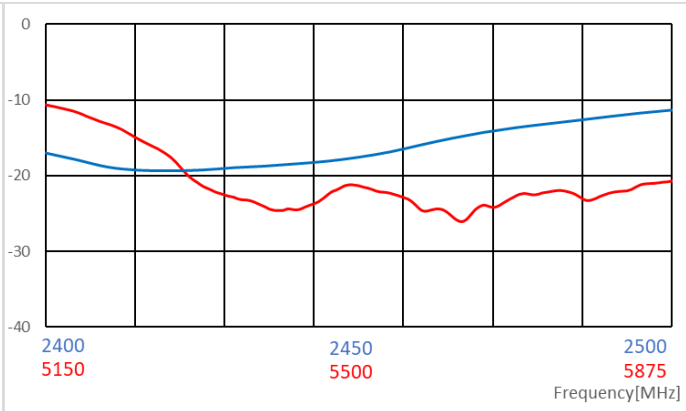
| Frequency Range (MHz) | 2400-2500 | 5150-5875 |
|-----------------------|--|-----------|
| VSWR | < 2.0:1 | < 2.0:1 |
| Average Efficiency | 80% | 80% |
| Peak Gain | 2.5dBi | 7.0dBi |
| Average Gain | -1.8dB | 0.1dB |
| Power Handling | 10 Watt cw | |
| Feed Point Impedance | 50 ohms unbalanced | |
| Polarization | Linear | |
| Size | 30 mm x 9.5 mm x 0.2 mm | |
| Weight | < 0.7 g | |
| Mounting | Adhesive Tape | |
| Mating Connector | MHF and MHF4-type, Refer to page 5 | |
| Cable (Coaxial) | 0.81mm and 1.13mm Dia., Refer to page 5 | |
| Operating Temperature | -40 to +85°C | |
| Storage Temperature | -40 to +85°C | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website. | |

RF DATA (Shown as 2344656-1 : Others can vary with different cable lengths.)

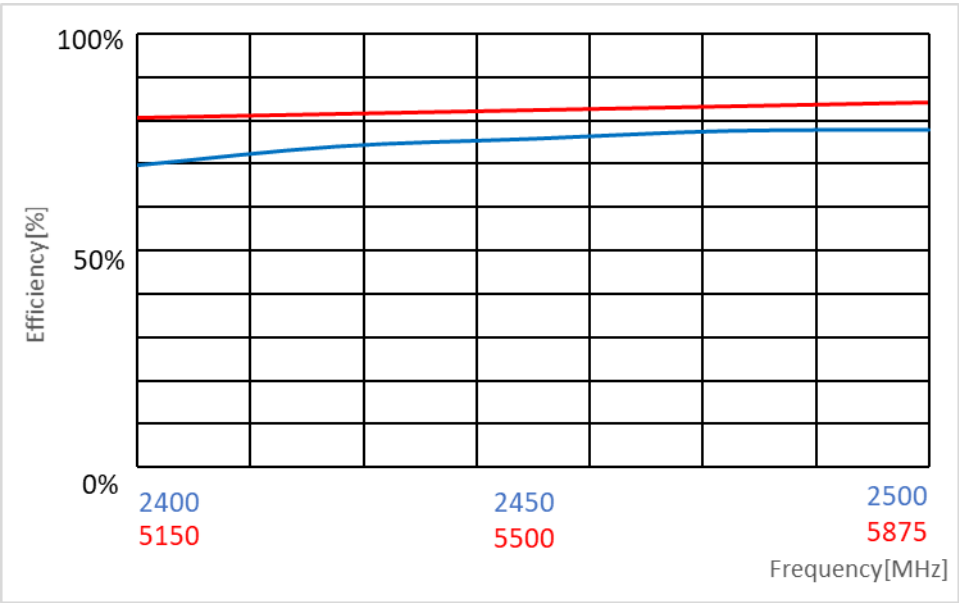
VSWR



Return Loss



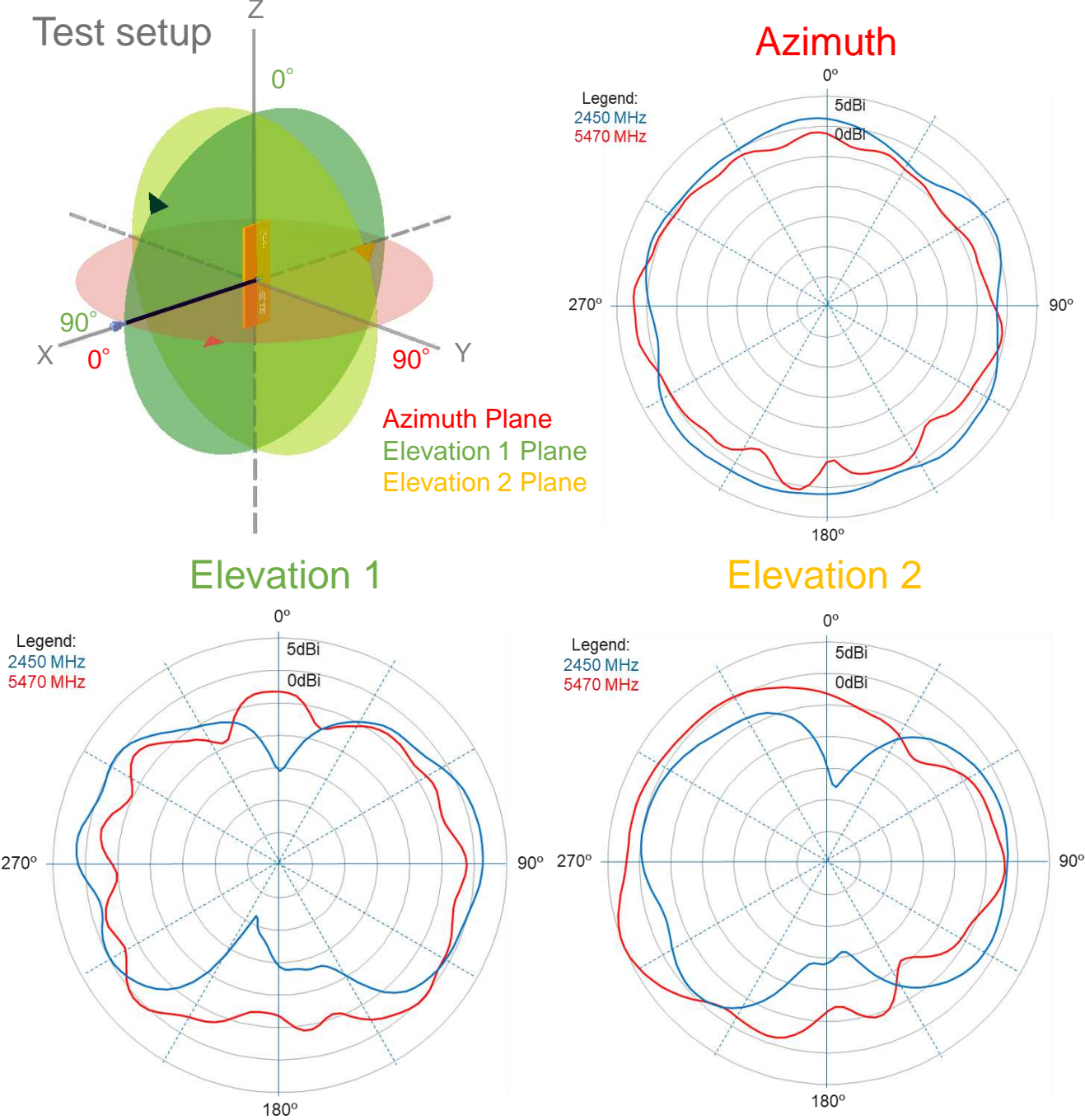
Efficiency



Data measured in free space and on plastic board.

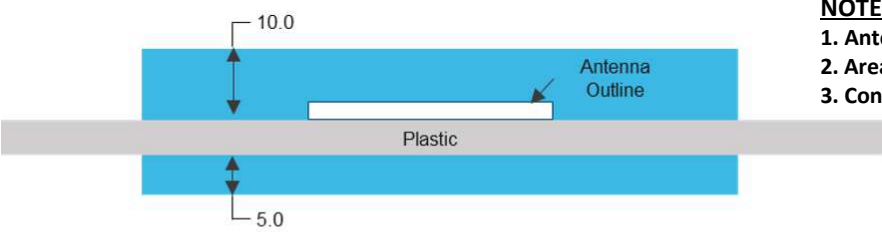
RADIATION PATTERN

(Shown as 2344656-1 : Others can vary with different cable lengths.)

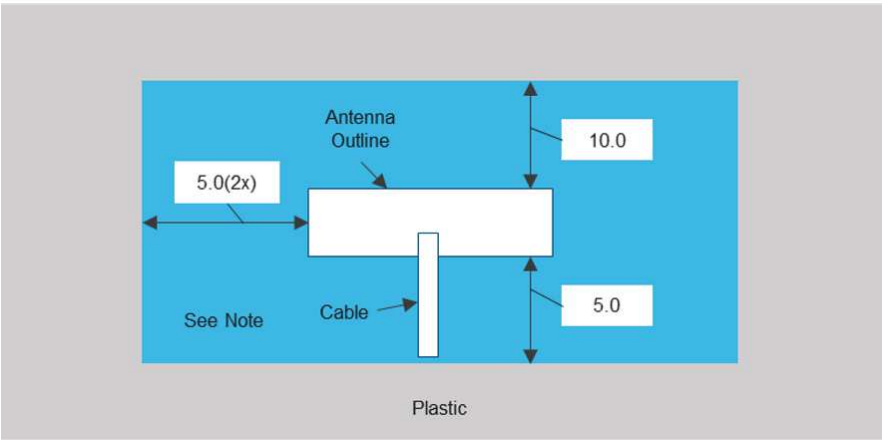


Data measured in free space and on plastic board.

KEEP OUT AREA

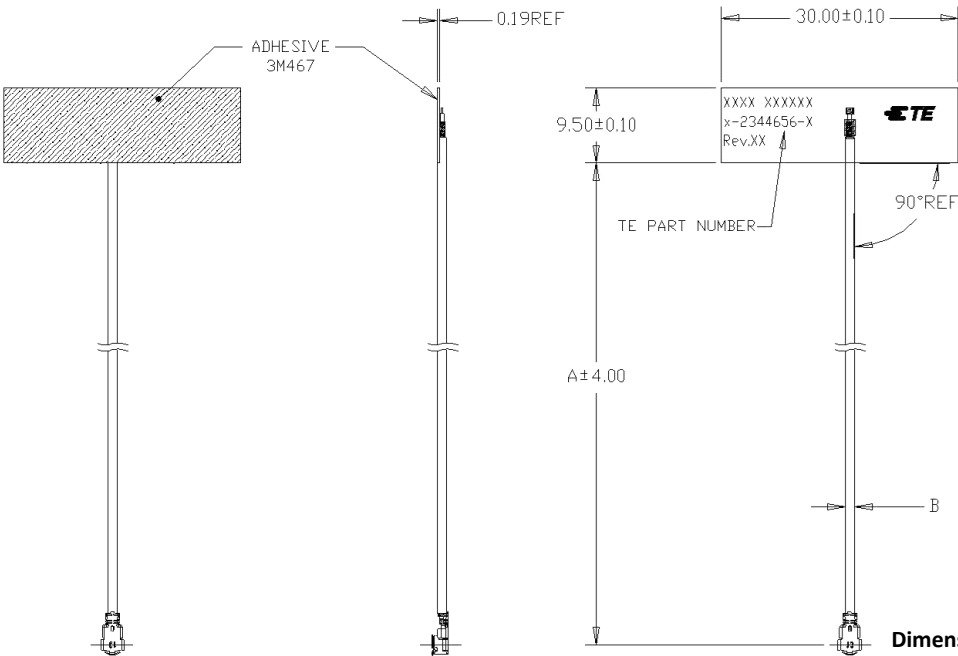


- NOTES**
- 1. Antenna designed to be mounted on plastic cover.
 - 2. Area in blue indicates Keep Out Area
 - 3. Contact TE if keep out zone cannot be guaranteed.





Dimension: mm
Diagrams is not into scale

DIMENSIONS

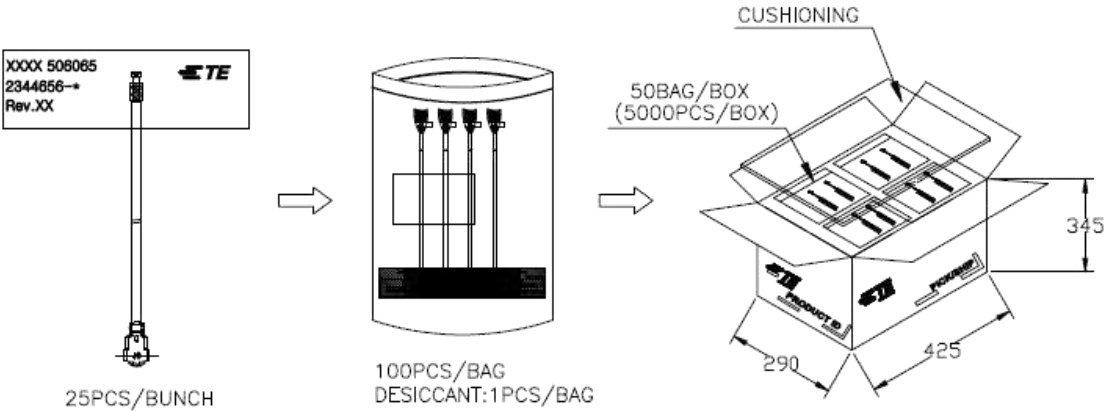


Dimension: mm
Diagrams is not into scale

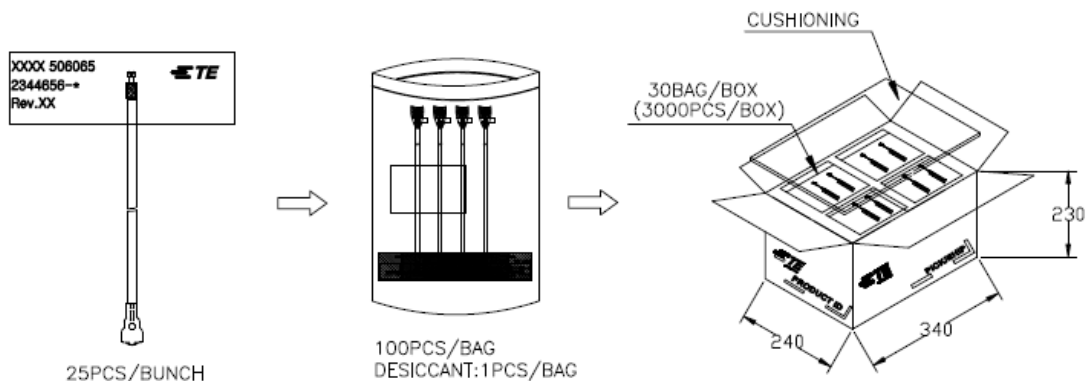
MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

| | | | | | | |
|----------------|-------|--------|-------------------------|------------------------------|----------------------------------|---|
| 2344655-1 | 50.0 | 1.968 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) |  |
| 2344656-2 | 100.0 | 3.937 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) | |
| 2344656-3 | 150.0 | 5.905 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) | |
| 2344656-4 | 200.0 | 7.784 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) | |
| 1-2344656-6 | 250.0 | 9.84 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) | |
| 1-2344656-7 | 300.0 | 11.81 | 1.13 | MHF-TYPE PLUG | RECEPTACLE (TE PN: 2337019-1) | |
| 2344656-5 | 50.0 | 1.968 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) |  |
| 2344656-6 | 100.0 | 3.937 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 2344656-7 | 150.0 | 5.905 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 2344656-8 | 200.0 | 7.784 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 1-2344656-4 | 250.0 | 9.84 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 1-2344656-5 | 300.0 | 11.81 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 1-2344656-2 | 800.0 | 31.496 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| 1-2344656-3 | 960.0 | 37.795 | 0.81 | MHF4L-TYPE PLUG | RECEPTACLE (TE PN: 2334884-1) | |
| PART NUMBER | MM | INCH | CABLE O.D, MM (B) | CONNECTOR TYPE (ON CABLE) | PART NUMBER MATING COMPONENTS | IMAGE |

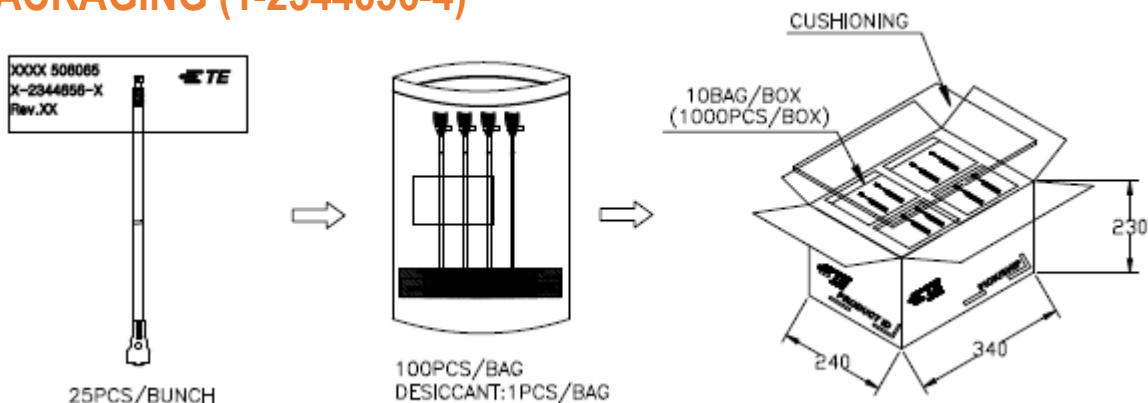
PACKAGING (2344656-1,-2,-3,-4)



PACKAGING (2344656-5,-6,-7,-8)



PACKAGING (1-2344656-4)



TE TECHNICAL SUPPORT CENTER

| | |
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