
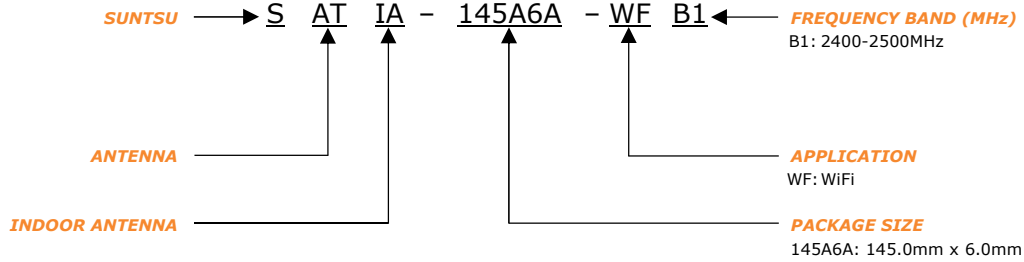


| FEATURES   | APPLICATIONS   |  |
|--|--|---|
| <ul style="list-style-type: none"> <li>- WiFi / Bluetooth</li> <li>- Indoor Antenna</li> <li>- 50 Ohm Impedance</li> <li>- 2400-2500MHz</li> <li>- Omni Radiation</li> </ul> | <ul style="list-style-type: none"> <li>- Bluetooth &amp; IEEE 802.11a/b/g</li> <li>- Wireless Communication</li> <li>- Portable Device</li> <li>- Machine To Machine Communication</li> <li>- Network Devices</li> </ul> |   |

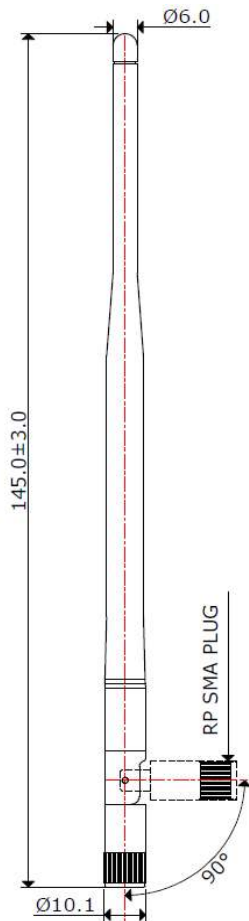
### PART NUMBERING GUIDE



\* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0  
To customize your parameters, contact a Suntsu representative.

| ELECTRICAL PARAMETERS (At 25°C) | UNITS    | MIN. | TYP.     | MAX  | REMARKS             |
|---------------------------------|----------|------|----------|------|---------------------|
| Frequency Band                  | MHz      | 2400 |          | 2500 |                     |
| Impedance                       | $\Omega$ |      | 50       |      |                     |
| Polarization                    |          |      | Vertical |      |                     |
| Peak Gain                       | dBi      |      | 4.3      |      | At 2450MHz          |
| Efficiency                      | %        |      | 93       |      | At 2450MHz          |
| VSWR                            |          |      |          | 2    | At Center Frequency |
| Operating Temperature           | °C       | -20  |          | 65   |                     |

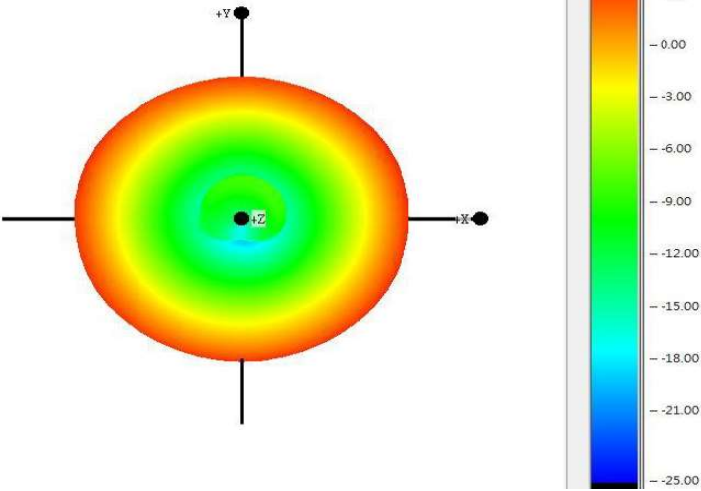
### OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



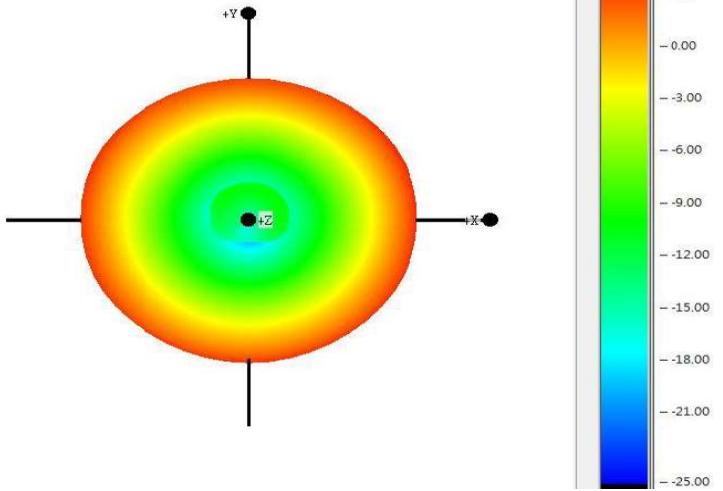
| Item                | Material |
|---------------------|----------|
| Whip                | TPE      |
| Connector           | Brass    |
| Connector Insulator | Teflon   |

### 3D RADIATION PATTERN (UNIT: dBi)

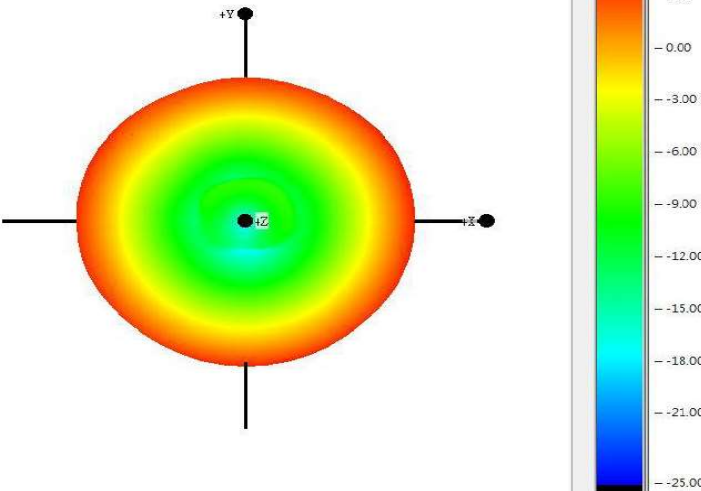
2400MHz



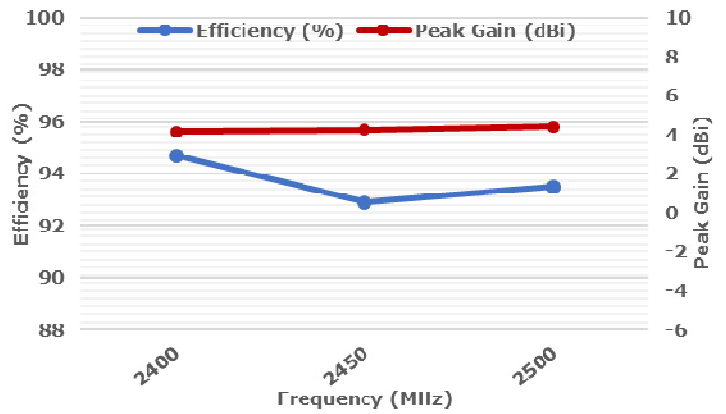
2450MHz



2500MHz



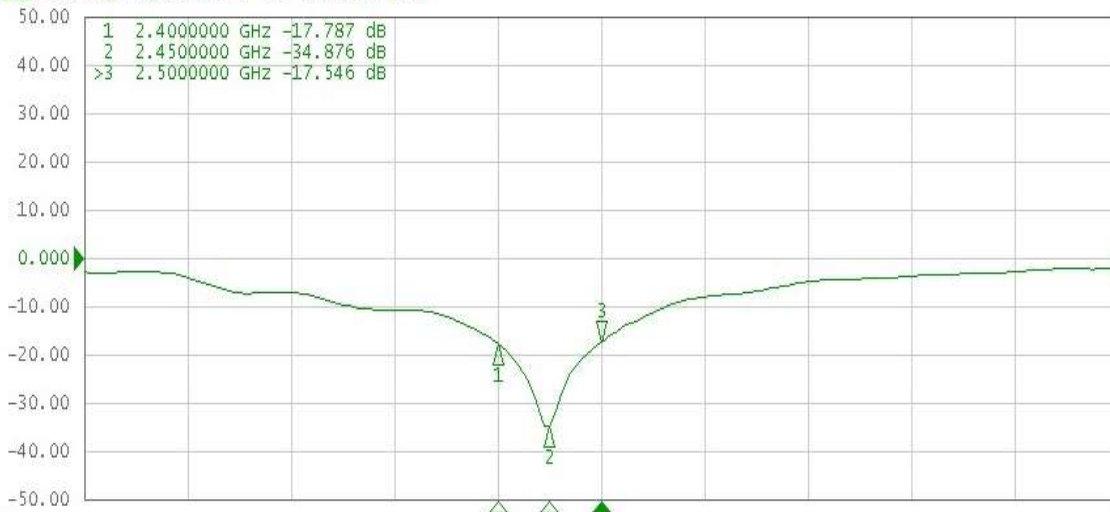
Efficiency v's Frequency



| Freq.    | 2400 | 2450 | 2500 |
|----------|------|------|------|
| Eff. (%) | 94.7 | 92.9 | 93.5 |
| P.G.     | 4.15 | 4.26 | 4.42 |

### ELECTRICAL TEST

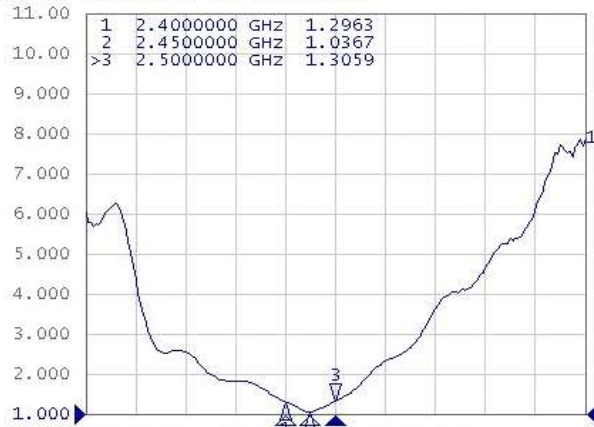
Return Loss Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



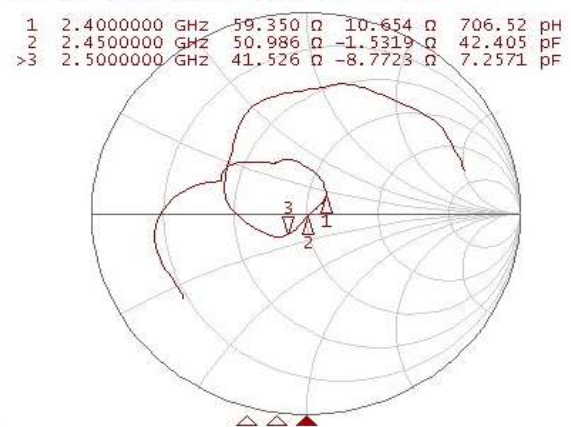
## ELECTRICAL TEST (CONT.)

### VSWR & Smith Chart

Tr1 S11 SWR 1.000/ Ref 1.000 [F2]



Tr2 S11 Smith (R+jX) Scale 1.000U [F2]



## ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

|                       |  |
|-----------------------|--|
| High Temperature Test | 70°C for 48 hours, and then to normal temperature/humidity for 24hours.  |
| Low Temperature Test  | -20°C for 48 hours, and then to normal temperature/humidity for 24hours.   |
| Humidity Test         | 65°C / 90%RH for 48 hours, and then to normal temperature/humidity for 24hours.                                    |
| Thermal Shock Test    | -20°C for 30 min and +70°C for 30 min. 48 cycles, then expose to normal temperature/humidity for 24 hours or more. |