

Chip Antenna SATCA-3C1G1D-WFB1 3.2mm x 1.6mm x 1.3mm

Features

- WiFi/ZigBee/Bluetooth
- Chip Type
- Stable And Reliable Performance
- 2400-2500MHz
- SMT Process Compatible

Applications ISM 2.4 GHz Applications

- ZigBee/BLE Applications
- Bluetooth Earphone Systems
- Smart Hand Held Devices
- Machine To Machine Communication



| | | Part Numbering Guide | | |
|--------|---------|--------------------------------|-------------|-------------------|
| | | S AT CA 3CIGID WF E | 31 | |
| | | | | |
| SUNTSU | ANTENNA | CHIP ANTENNA PACKAGE SIZE* | APPLICATION | FREQUENCY |
| | | 3C1G1D = 3.2mm x 1.6mm x 1.3mm | WF = WiFi | B1 = 2400-2500MHz |
| | | | | |
| | | | | |
| | | | | |

RoHS

* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

| Electrical Parameters | Units | Minimum | Typical | Maximum | Remarks |
|-----------------------|-------|---------|---------|---------|---------------------|
| Frequency Band | MHz | 2400 | | 2500 | |
| Impedance | Ω | | 50 | | |
| Polarization | | | Linear | | |
| Peak Gain | dBi | | 1.5 | | At 2442MHz |
| Efficiency | % | | 56.3 | | At 2442MHz |
| VSWR | | | | 2 | At Center Frequency |
| Operating Temperature | °C | -40 | | 85 | |



www.suntsu.com

Specifications are subject to change without notice.

Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

😂 SUNTSU

Chip Antenna SATCA-3C1G1D-WFB1 3.2mm x 1.6mm x 1.3mm



Please note, these are average reference values which may need to be changed when different circuit boards or manufactures are used.

| Location | Description | Vendor | Tolerance | | |
|-----------------|---------------|--------|-----------|--|--|
| 1 | N/A | - | - | | |
| 2 | 1.6nH, (0402) | MURATA | ±0.1nH | | |
| 3 | 0.7pF, (0402) | MURATA | ±0.05pF | | |
| 4 (Fine Tuning) | 8.2nH, (0402) | MURATA | ±2% | | |

www.suntsu.com

Specifications are subject to change without notice.

Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

😂 SUNTSU

Chip Antenna SATCA-3C1G1D-WFB1 3.2mm x 1.6mm x 1.3mm

10

15

53.1

1.1



www.suntsu.com

Specifications are subject to change without notice.

Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

😂 SUNTSU

Chip Antenna SATCA-3C1G1D-WFB1 3.2mm x 1.6mm x 1.3mm









| Environmental & Mechanical Specifications | | | | |
|---|---|--|--|--|
| High Temperature Test | 85°C for 500 hours, and then to normal temperature/humidity for 24hours. | | | |
| Low Temperature Test | -30°C for 500 hours, and then to normal temperature/humidity for 24hours. | | | |
| Humidity Test | 85°C / 90-95%RH for 96 hours, and then to normal temperature/humidity for 24hours. | | | |
| Thermal Shock Test | -30°C for 30 min and +85°C for 30 min. 5 cycles, then expose to normal temperature/humidity for 24 hours or more. | | | |

www.suntsu.com

Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

Specifications are subject to change without notice.