

# SATCA-3C1G1G-WFB1

### 3.2mm x 1.6mm x 1.6mm CHIP ANTENNA

#### FEATURES

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

### PART NUMBERING GUIDE



APPLICATIONS

-

-

-

-

ISM 2.4 GHz Applications

ZigBee/BLE Applications

Smart Hand Held Devices

Bluetooth Earphone Systems

Machine To Machine Communication

\* 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	Ω		50		
Polarization			Linear		
Peak Gain	dBi		1.9		At 2442MHz
Efficiency	%		61		At 2442MHz
VSWR				2	At Center Frequency
Operating Temperature	٥C	-40		85	

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



# SATCA-3C1G1G-WFB1

### 3.2mm x 1.6mm x 1.6mm CHIP ANTENNA



#### ELECTRICAL TEST



SUNTSUR

VSWR



www.suntsu.com REV. 01/23/18 Telephone • 949.305.0220 Facsimile • 949.305.0221

# SUNTSUR

# SATCA-3C1G1G-WFB1

### 3.2mm x 1.6mm x 1.6mm CHIP ANTENNA

#### **3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY**



#### SOLDERING CONDITIONS



P.G.(dBi) 1.5

1.9 1.8 1.7 1.7

16

1.9 19 1.8

# 

# SATCA-3C1G1G-WFB1

## 3.2mm x 1.6mm x 1.6mm CHIP ANTENNA

PACKAGING - TAPE AND REEL (NOTE: All dimensions are in mm, unless otherwise noted. Drawings are not to scale.)



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% 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.	
Vibration Test	5 to 200 to 5Hz, swept in 10min, 4.5G at max(2mm amplitude), in X and Y directions for 2 hours each and in Z direction for	
	4 hours.	