

MICROWAVE DIELECTRIC ANTENNA

SPECIFICATION

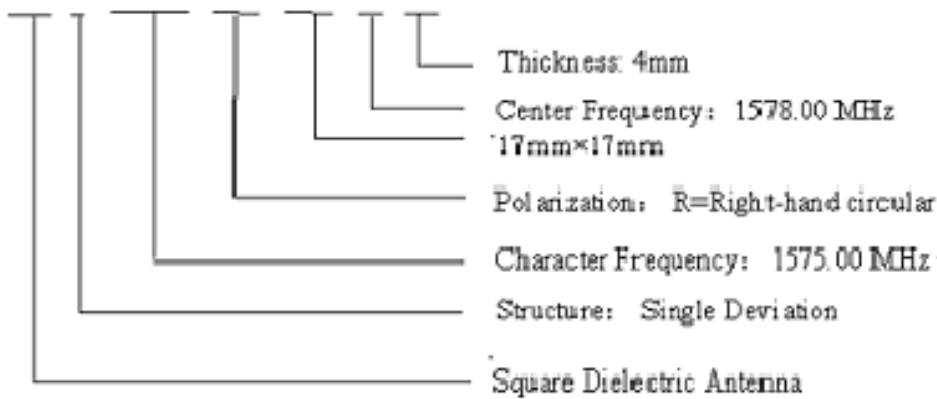
Part Number: DAA1575R17C₄4

INTRODUCTION

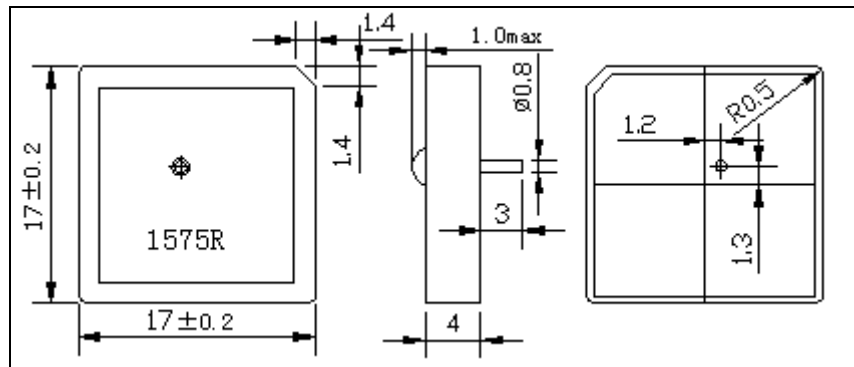
"SBtron" microwave dielectric antenna elements and its series are designed to be used for GPS and WLAN. The patch antenna with compact size incorporates a rectangular micro-strip design for GPS C/A right-hand circular polarization wave reception, featuring low RL, low Axial Ratio but high gain, etc.

Part Number

DAA 1575 R 17 C₄ 4



Dimension (Unit : mm)



Structure and Material

No.	Description	Structure and material
4.1	Antenna Substrate	Dielectric Ceramics
4.2	Pin	Copper, lead and tin plated
4.3	Electrode	Ag Plated
4.4	Ground Base	Ag Plated

Electrical Characteristics (For Example:1578MHz)

Tab 2

No.	Item	Specifications	Post Environmental Tolerance
5.1	Range of Receiving Frequency (MHz)	1575.42 ±1.1	±2.5MHz
5.2	Center Frequency (MHz) (with 30mm Square GND Plane)	1578.00	±3.0MHz
5.3	Band Width (MHz)	±3.5 min	±0.5 MHz
5.4	V.S.W.R (in BW)	1.5 max	±0.5
5.5	Gain (Zenith) (dBi typ)	1.0 min	±0.5
5.6	Axial Ratio (0~90°)	2.5 dB max	±0.2
5.7	Polarization	Right-Handed Circular	---
5.8	Impedance (Ω)	50±5.0	---
5.9	Frequency Temperature Coefficient (ppm/deg. °C)	20 max	---

Characteristic curve

(For Example:1576MHz)

