

## GPS Patch Antenna – I Type

### Features

1. High Antenna Gain up to +5.0 dBic.
2. Miniaturized to 19\*19\*2 mm<sup>3</sup>.
3. Low profile 2mm is available.
4. Antenna tuning in special design is available.
5. No connectors needed, fed by direct pad.
6. Stable Frequency Temperature Coefficient  
(  $\pm 20$ ppm/°C), from -40°C to 85°C )

### Application

Automotive, recreational , military, marine , aviation , surveying

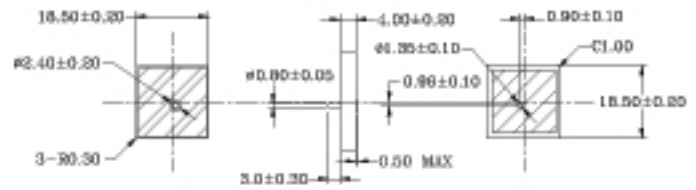
### Part Number

SeriesType	Dimensions	Center Frequency
PA1575MZ50	I	03

- Series Type
- Dimensions I — 25\*25\*4mm
- Center Frequency

XX	f <sub>0</sub>	XX	f <sub>0</sub>
00	1576	11	1587
01	1577	12	1588
02	1578	13	1589
03	1579	14	1590
04	1580	15	1591
05	1581	16	1592
06	1582	17	1593
07	1583	18	1594
08	1584	19	1595
09	1585	23	1599
10	1586		

### Dimensions



### Electrical Characteristics

Characteristics	Specification	Unit	Conditions
Center Frequency f <sub>0</sub>	1580.0*	MHz	with 70mm Square ground plane
Bandwidth	9.0 min	MHz	Return Loss ≤ -10dB
Gain at Zenith	+5.0 typ	dBic	@1580.0 MHz*
Gain at 10° elevation	-1.0 typ	dBic	@1580.0 MHz*
Impedance	50	Ω	
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

### Data Charts

#### 1. Return Loss Characteristics

( For Example ; 1580MHz )

