

# Multilayer Antenna

For 1557-1605MHz

# ANT161575ST-1202A1

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**1.6x0.8mm [EIA 0603]\***

\* Dimensions Code JIS[EIA]

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## Multilayer Antenna

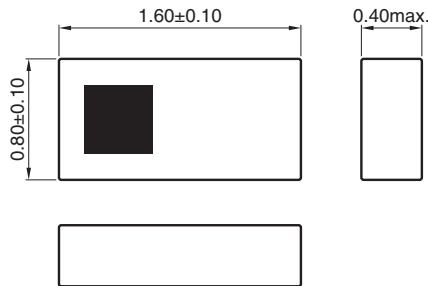
Conformity to RoHS Directive

For 1557-1605MHz

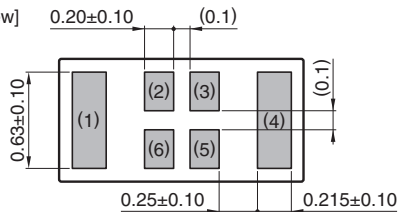
## ANT161575ST-1202A1

## SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

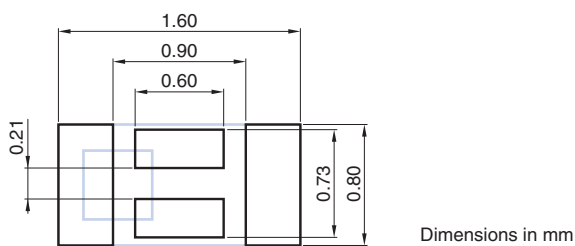


Terminal functions

1	Radiator electrode
2	Dummy pad
3	Dummy pad
4	Feed point
5	Dummy pad
6	Dummy pad

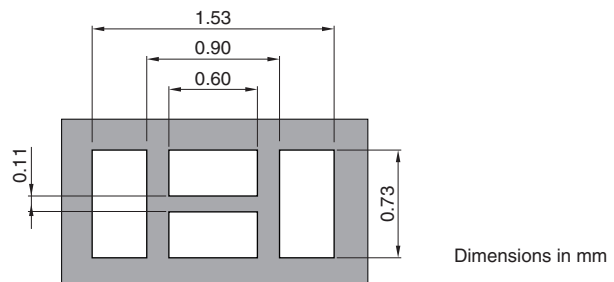
Dimensions in mm

## RECOMMENDED LAND PATTERN



Dimensions in mm

## SOLDER RESIST PATTERN



Dimensions in mm

○ RoHS Directive Compliant Product: See the following for more details. <https://product.tdk.com/info/en/environment/rohs/index.html>

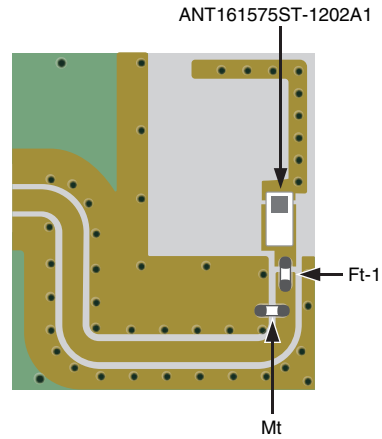
- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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## EVALUATION BOARD

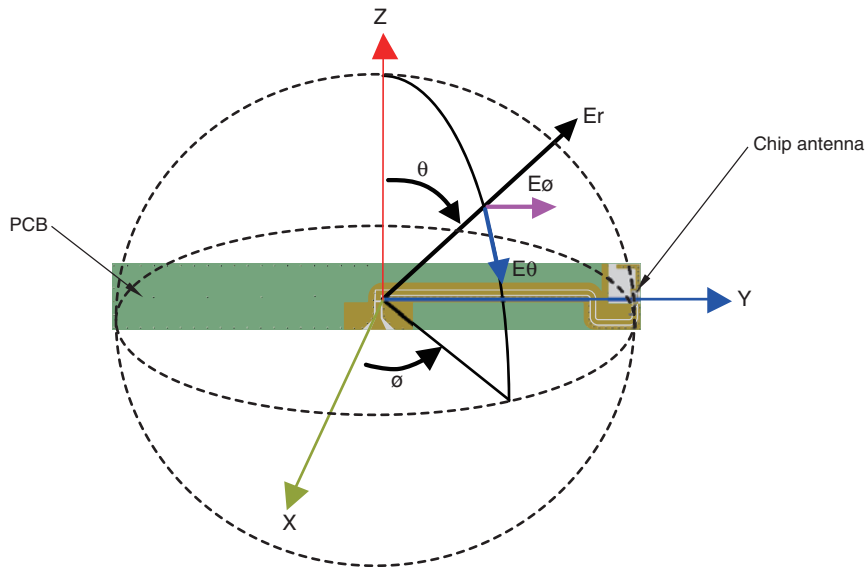


PCB size : 80mm x 10mm x 1mm  
 Antenna area : 6 x 5 mm



Component	P/N
Ft-1	1.2nH(MLG0603P1N2:TDK)
Mt	Blank

### Measurement condition for Radiation Pattern



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## ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
VSWR	1557 to 1605	—	1.30	3.0
Polarization			Linear	
PCB size (mm)			80×10	
Antenna keep-out area (mm)			6×5	
Characteristic Impedance ( $\Omega$ )			50 (Nominal)	

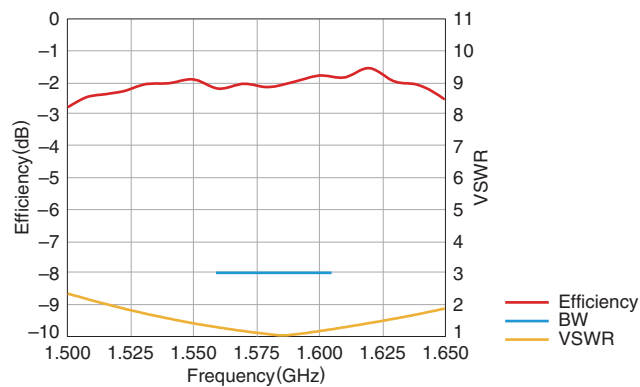
• This is typical antenna performance with the standard PCB.

## TEMPERATURE RANGE

Operating temperature ( $^{\circ}\text{C}$ )	Storage temperature ( $^{\circ}\text{C}$ )
-40 to +85	-40 to +85

## FREQUENCY CHARACTERISTICS

### EFFICIENCY AND VSWR



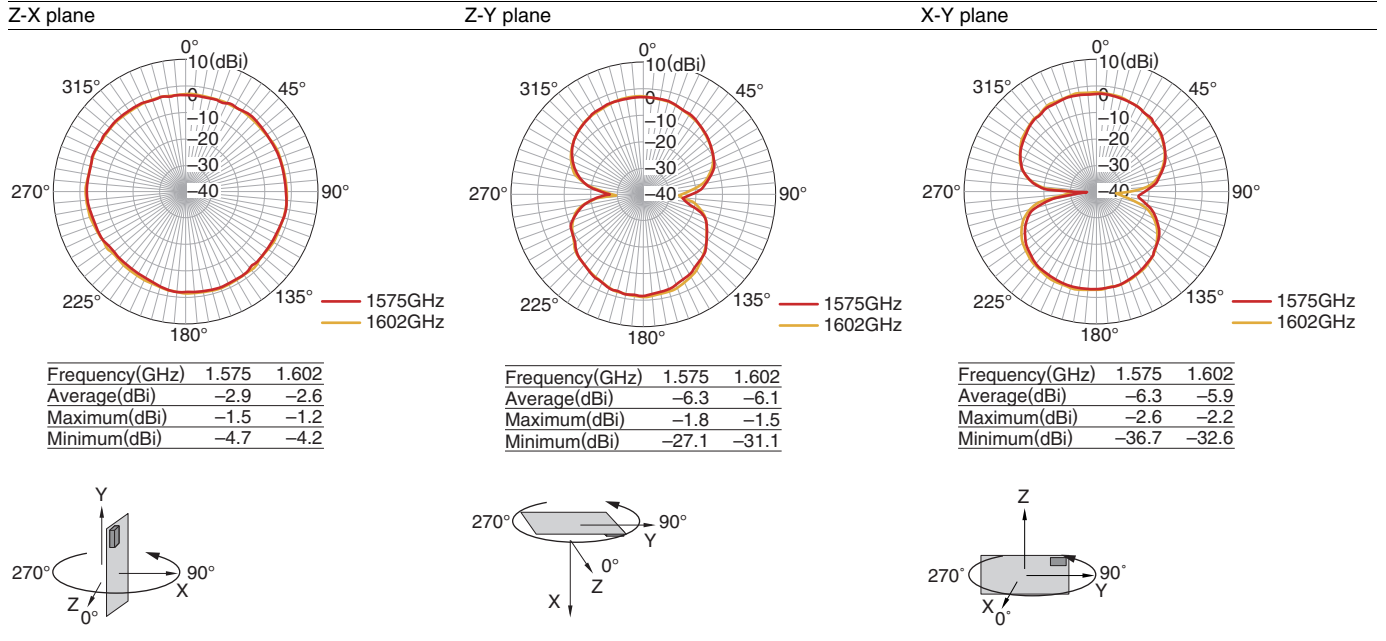
• Tested antenna has been soldered. Evaluation board size is 80x10x1 mm.

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## RADIATION PATTERNS

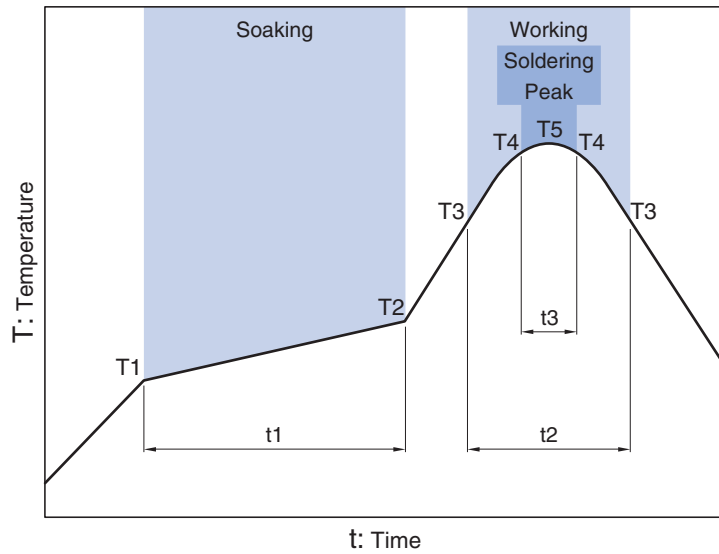
### GNSS BAND

#### RHCP



• Tested antenna has been soldered. Evaluation board size is 80x10x1 mm.

## ANT161575ST-1202A1

**RECOMMENDED REFLOW PROFILE**


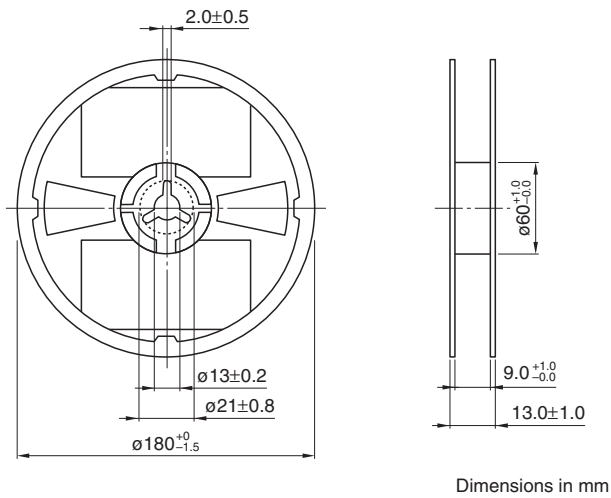
Soaking			Working		Soldering Peak		
Temp.	T2	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	30 to 60s	247 to 253°C	within 10s	260°C max.

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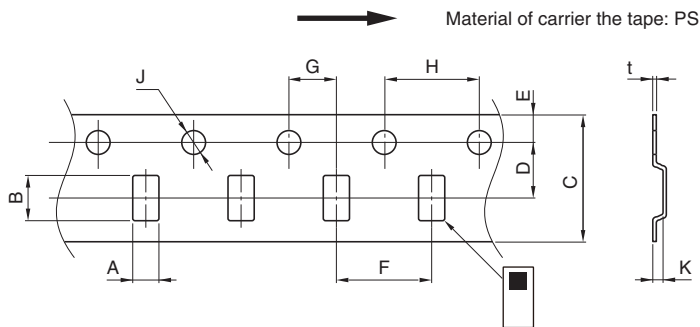
## PACKAGING STYLE

### REEL DIMENSIONS



Dimensions in mm

### TAPE DIMENSIONS



Dimensions in mm

A	B	C	D	E	F	G	H	J	K	t
0.97±0.05	1.8±0.05	8.0±0.2	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.5+0.1/-0	0.55max.	0.25±0.05

## PACKAGE QUANTITY

Standard package quantity (pieces/reel)
4,000

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## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

#### REMINDERS

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The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- |   |  |
|---|--|
| (1) Aerospace/Aviation equipment                                  | (8) Public information-processing equipment                                  |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment   |
| (3) Medical equipment   | (10) Electric heating apparatus, burning equipment                           |
| (4) Power-generation control equipment                            | (11) Disaster prevention/crime prevention equipment                          |
| (5) Atomic energy-related equipment                               | (12) Safety equipment  |
| (6) Seabed equipment  | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment                              |  |

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.



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- Подбор аналогов.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.

