

# 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

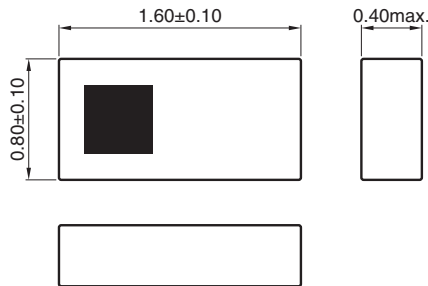
Conformity to RoHS Directive

For 1557-1605MHz

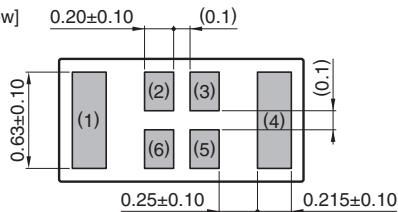
## ANT161575ST-1202A1

## SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

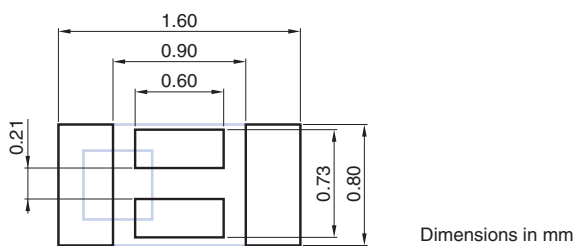


Terminal functions

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

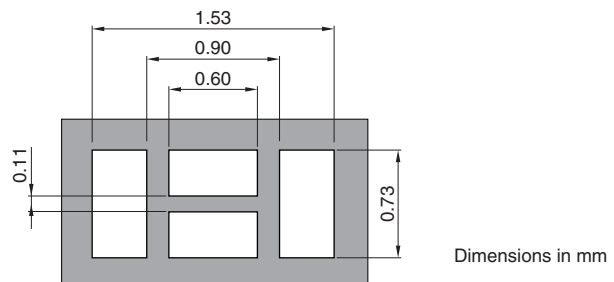
Dimensions in mm

## 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>

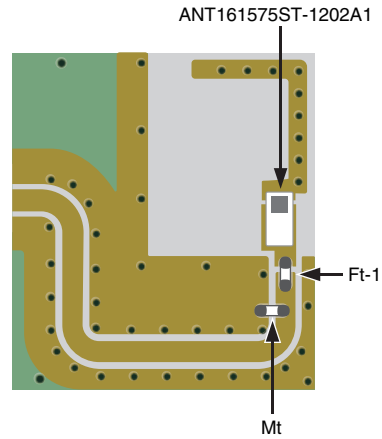
- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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## EVALUATION BOARD

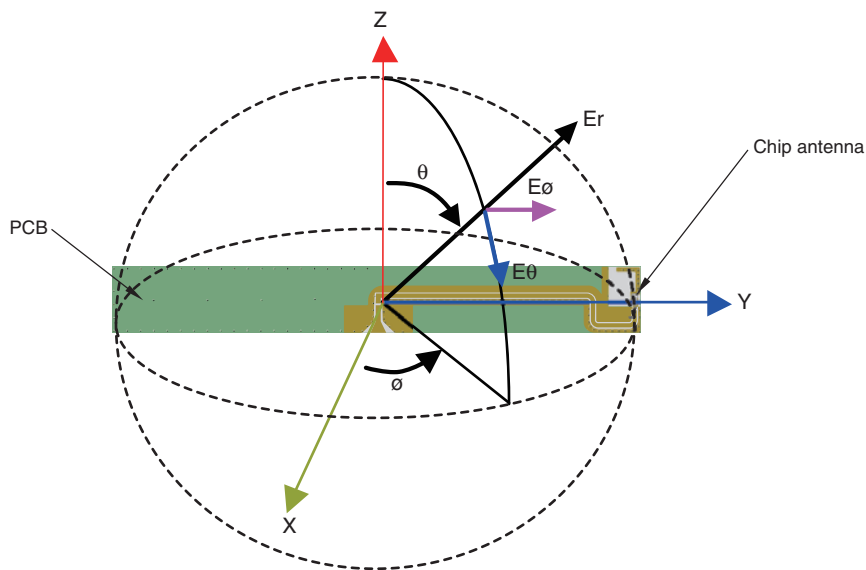


PCB size : 80mm x 10mm x 1mm  
 Antenna area : 6 x 5 mm



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)	

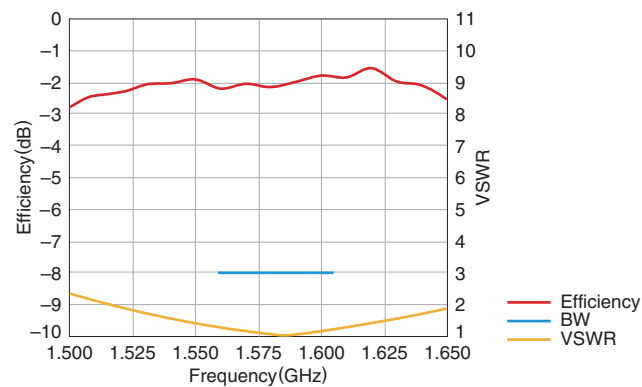
• This is typical antenna performance with the standard PCB.

## TEMPERATURE RANGE

Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

## FREQUENCY CHARACTERISTICS

### EFFICIENCY AND VSWR



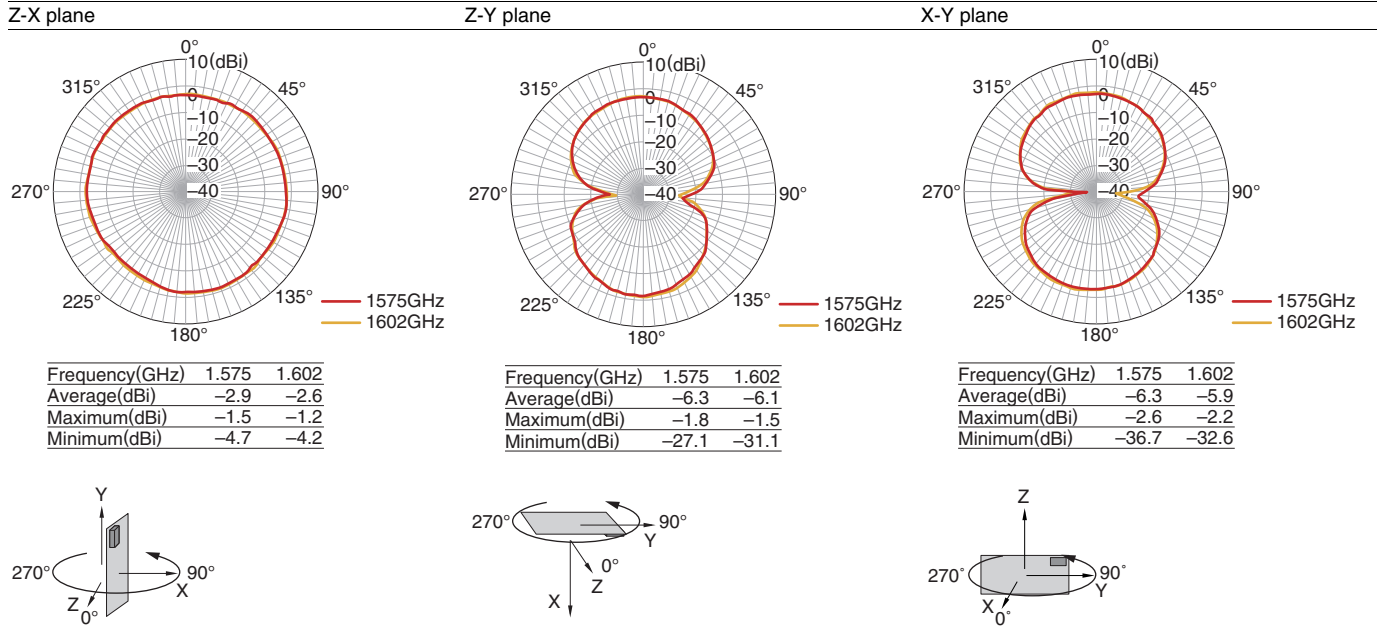
• Tested antenna has been soldered. Evaluation board size is 80x10x1 mm.

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## RADIATION PATTERNS

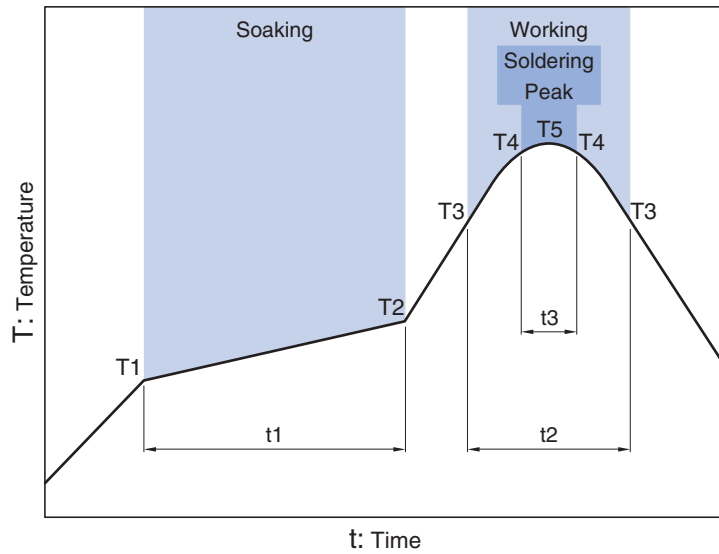
### GNSS BAND

#### RHCP



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

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**RECOMMENDED REFLOW PROFILE**


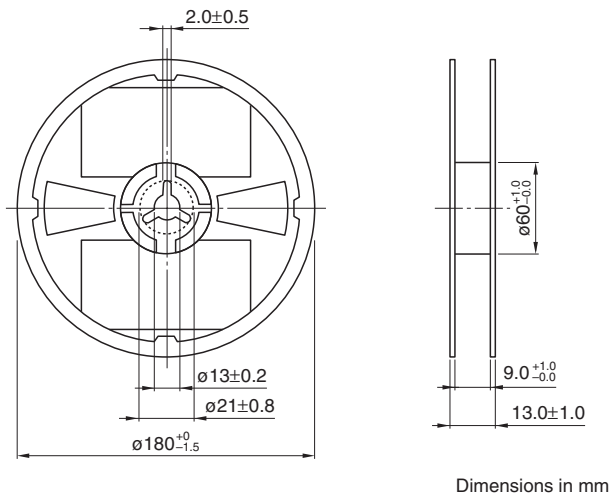
Soaking			Working		Soldering Peak		
Temp.	T2	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	30 to 60s	247 to 253°C	within 10s	260°C max.

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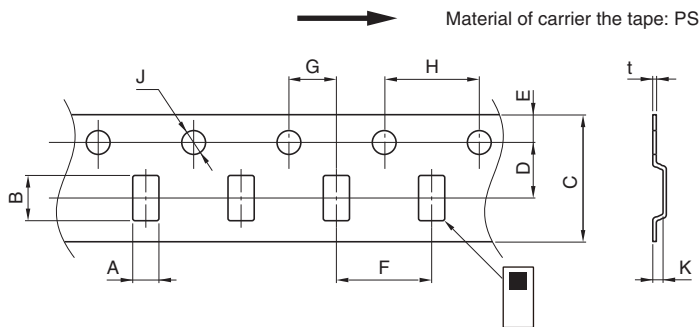
## PACKAGING STYLE

### 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.

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- |   |  |
|---|--|
| (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                              |  |

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



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