



Multilayer Antenna

For 2300-2700MHz

ANT162500ST-1002A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

Caution

**The products in this catalog will be or have been
stopped production**

Discontinue Issue Date	May. 26, 2025
Last Purchase Order Date	Mar. 31, 2026
Last Shipment Date	Jun. 30, 2026

Please refer to our Web site about replacement information.

Multilayer Antenna

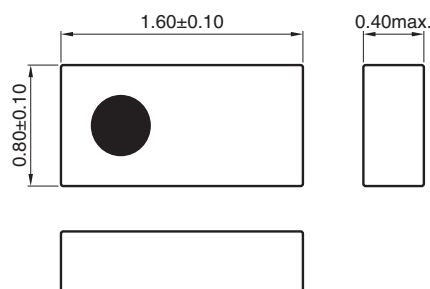
For 2300-2700MHz

Conformity to RoHS Directive

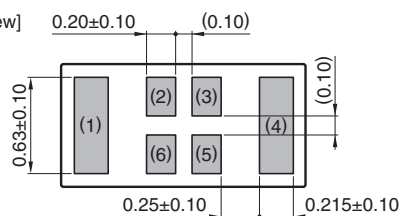
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SHAPES AND DIMENSIONS

[Top view]



[Bottom view]



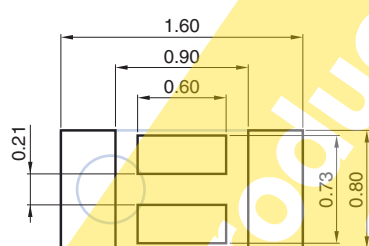
Dimensions in mm

Terminal functions

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

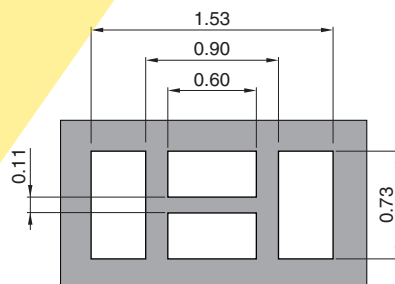
*Terminal (2),(3),(5) and (6) :Connected in inner structure

RECOMMENDED LAND PATTERN



Dimensions in mm

SOLDER RESIST PATTERN



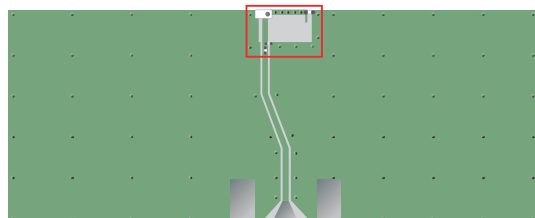
Dimensions in mm

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

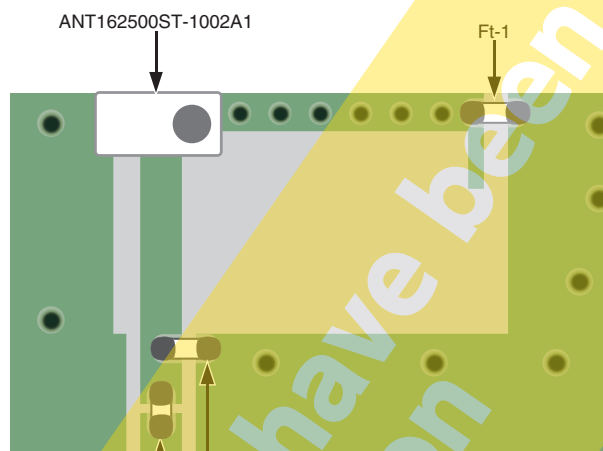
- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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EVALUATION BOARD

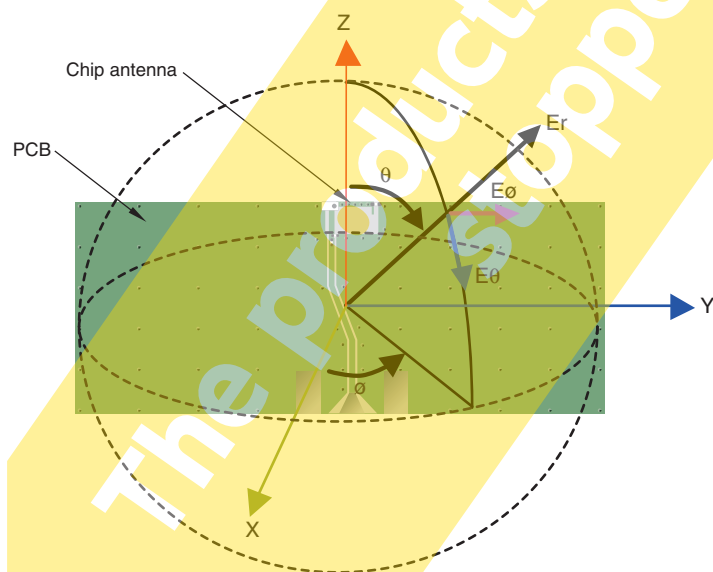


PCB size : 50mm x 20mm x 1mm
Antenna area : 8 x 5 mm



	Element Value
Ft-1	1.6pF
Mt-1	0.6pF(Shunt)
Mt-2	1.3pF(Series)

Measurement condition for Radiation Pattern



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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
VSWR	2300 to 2700	—	1.80	3.0
Polarization			Linear	
PCB size (mm)			50×20	
Antenna keep-out area (mm)			8×5	
Characteristic Impedance (Ω)			50 (Nominal)	

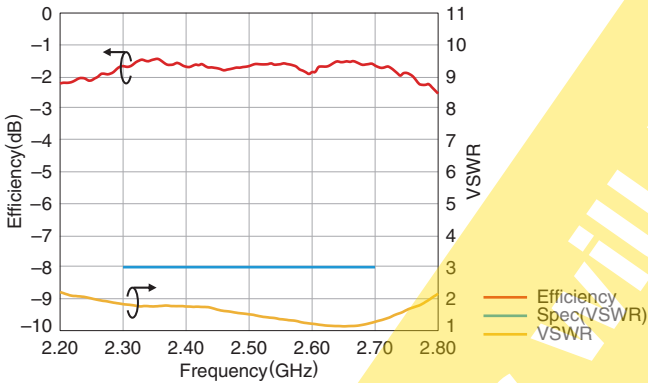
• This is typical antenna performance with the standard PCB.

TEMPERATURE RANGE

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

FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR

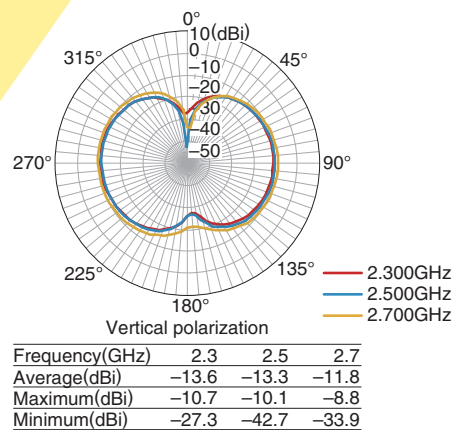
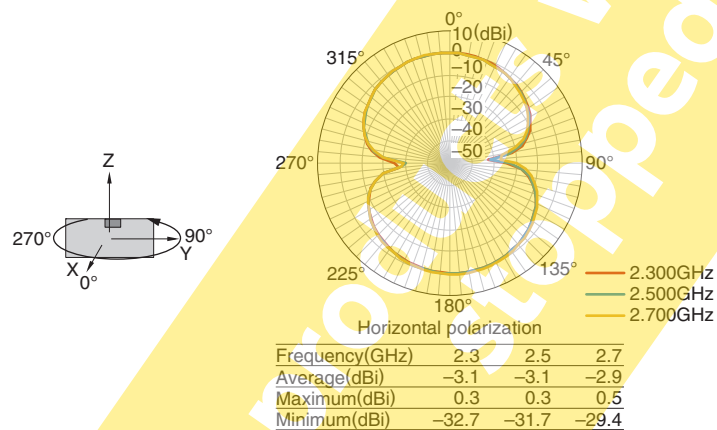
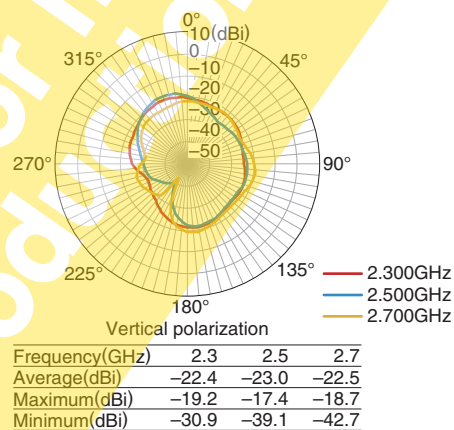
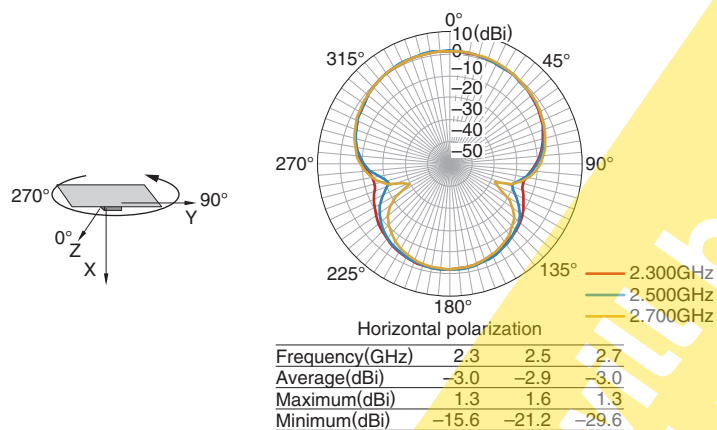
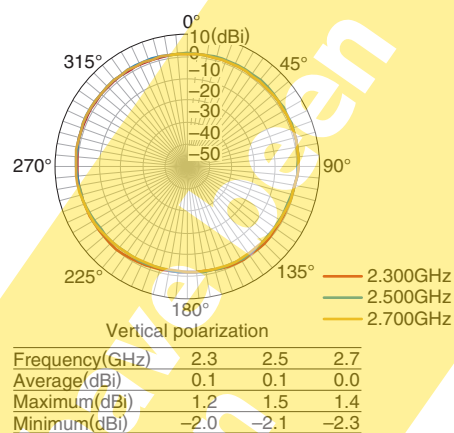
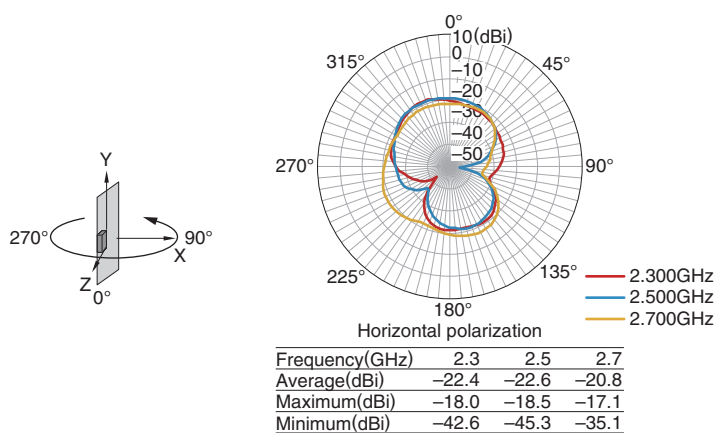


• Tested antenna has been soldered. Evaluation board size is 50x20x1 mm.

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RADIATION PATTERNS

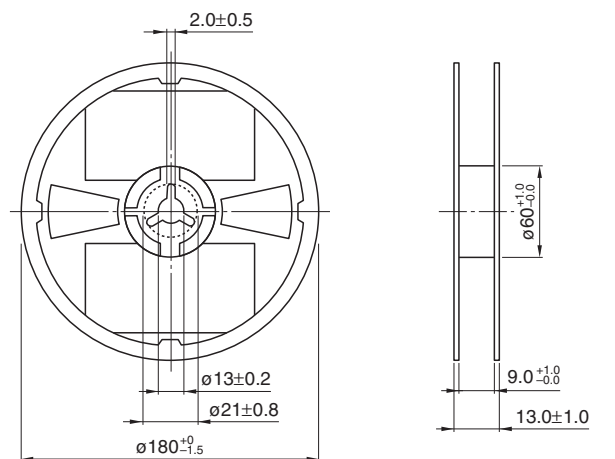


• Tested antenna has been soldered. Evaluation board size is 50x20x1 mm.

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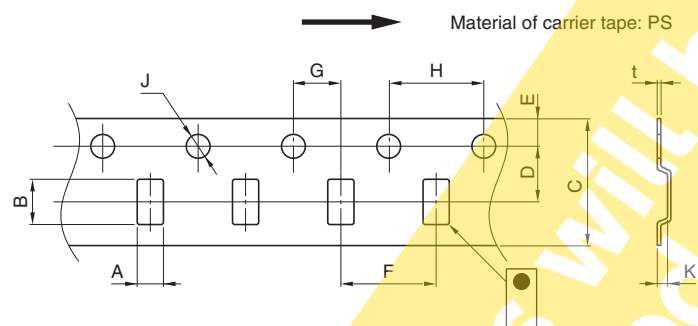
■ PACKAGING STYLE

□ 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

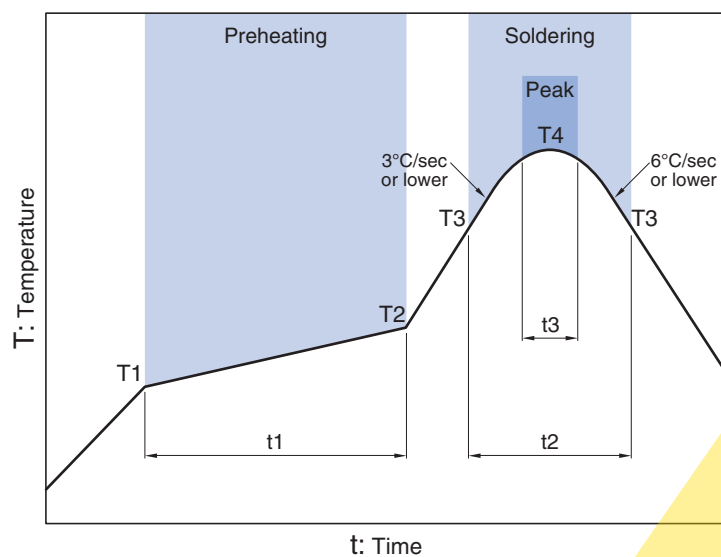
Standard package quantity
(pieces/reel)

4,000

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RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
			Critical zone (T3 to T4)		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120sec	240 to 260°C	30sec max.

* t3 : Time within 5°C of actual peak temperature
The maximum number of reflow is 3.

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

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

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.