

September 2016

AEC-Q200 (-40 to 85°C) qualified component family

Multilayer Antenna

For 2400-2484MHz

ANT162442ST-1201AM1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

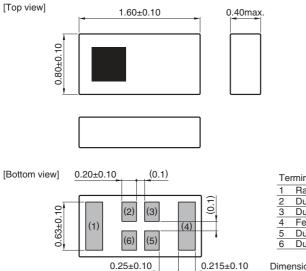
Conformity to RoHS Directive

Multilayer Antenna

For 2400-2484MHz

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SHAPES AND DIMENSIONS

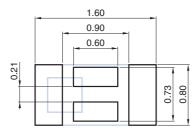


Те	Terminal functions					
1	Radiator electrode					
2	Dummy pad					
3	Dummy pad					
4	Feed point					
5	Dummy pad					
6	Dummy pad					

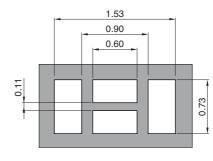
Dimensions in mm

Dimensions in mm

RECOMMENDED LAND PATTERN



SOLDER RESIST PATTERN



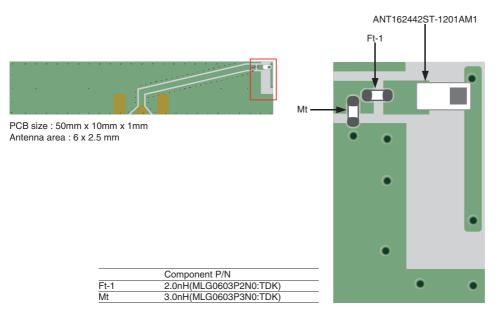
Dimensions in mm

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

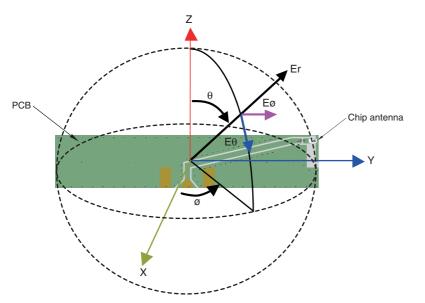
• All specifications are subject to change without notice.

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

EVALUATION BOARD



Deasurement condition for Radiation Pattern



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ELECTRICAL CHARACTERISTICS

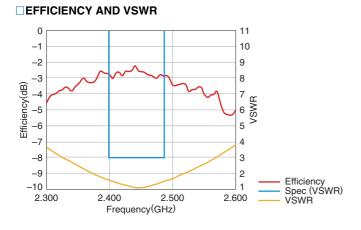
Item	Frequency Range (MHz)	Min.	Тур.	Max.
VSWR	2400 to 2484	_	1.60	3.0
Polarization			Linear	
PCB size (mm)			50×10	
Antenna keep-out area (mm) 6×2.5				
Characteristic Impedance (Ω)			50 (Nominal)	

 \cdot This is typical antenna performance with the standard PCB.

TEMPERATURE RANGE

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

FREQUENCY CHARACTERISTICS



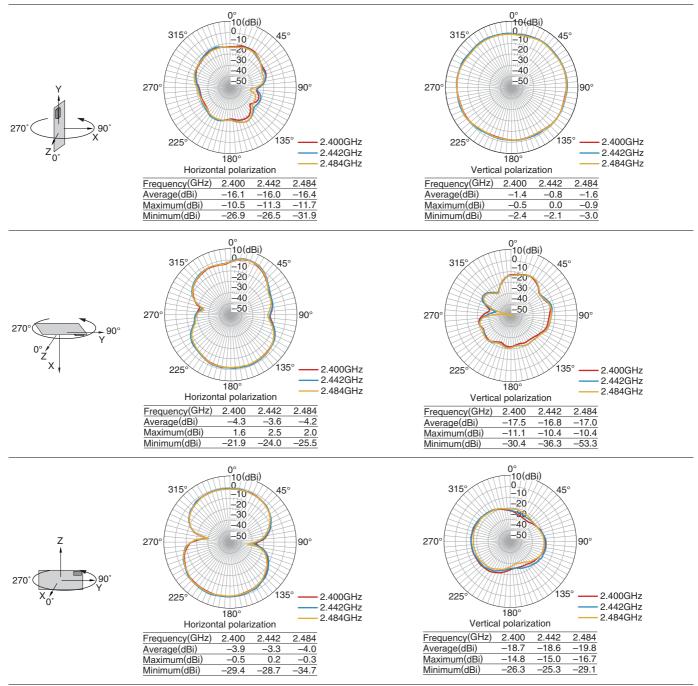
• Tested antenna has been soldered. Evaluation board size is 50x10x1 mm.

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RADIATION PATTERNS

2.4GHz WLAN BAND

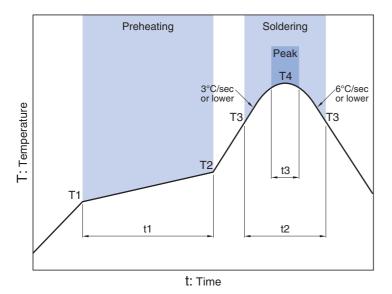


• Tested antenna has been soldered. Evaluation board size is 50x10x1 mm.

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RECOMMENDED REFLOW PROFILE



Soldering Preheating Critical zone (T3 to T4) Peak Temp. Time Temp. Time Temp. Time T1 T2 **T**4 t1 ТЗ t2 t3* 150°C 200°C 60 to 120sec 217°C 60 to 120sec 240 to 260°C 30sec max.

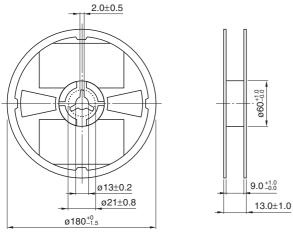
*t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

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PACKAGING STYLE

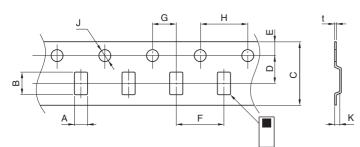
REEL DIMENSIONS



Dimensions in mm

TAPE DIMENSIONS

Material of carrier the tape: PS



Dimensions in m									sions in mm	
Α	В	С	D	E	F	G	Н	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

Standardpackage 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

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
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

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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