

Multilayer Antenna (Dual Band type)

For 1574-1576MHz / 2400-2484MHz

ANT016008LCD1575MA1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]



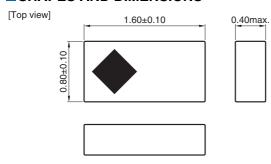
Multilayer Antenna

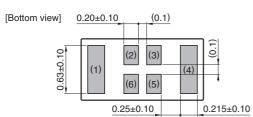
For 1574-1576MHz / 2400-2484MHz

Conformity to RoHS Directive

ANT016008LCD1575MA1

SHAPES AND DIMENSIONS



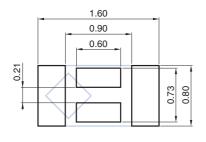


Terminal functions					
1	Radiator electrode for GPS				
2	Feed point				
3	Feed point				
4	Radiator electrode for 2.4GHz ISM				
5	Feed point				
6	Feed point				

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

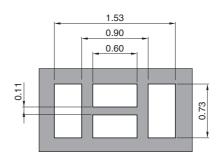
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

SOLDER RESIST PATTERN



Dimensions in mm

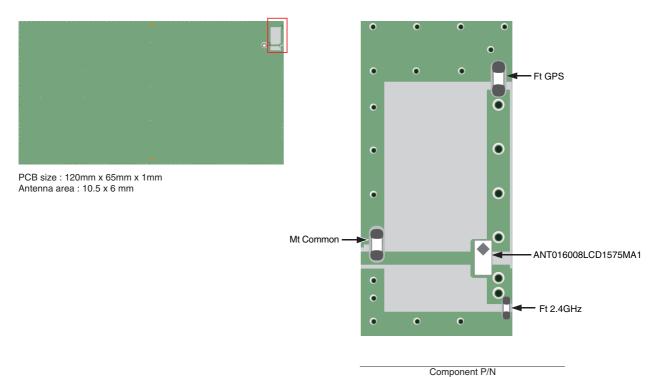
OROHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

[•] All specifications are subject to change without notice.

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



EVALUATION BOARD

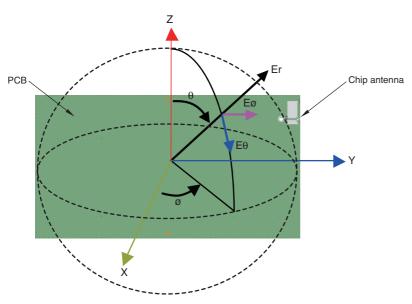


Ft GPS Ft 2.4GHz Mt Common

15pF

2.2pF 1.5nH(MHQ1005P1N5B:TDK)

☐ Measurement condition for Radiation Pattern



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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Тур.	Max.		
VSWR	1574 to 1576	_	1.50	4.0		
VOVVN	2400 to 2484	_	2.50	4.0		
Polarization			Linear			
PCB size (mm)			120×65×1.0			
Antenna keep-out area (mm)			10.5×6			
Characteristic Impedance (Ω)			50 (Nominal)			

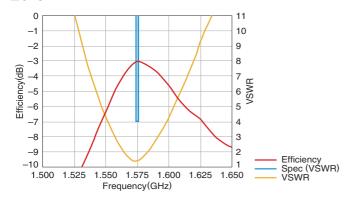
[·] This is typical antenna performance with the standard PCB.

TEMPERATURE RANGE

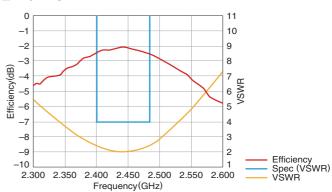
Operating temperature	Storage temperature
(°C)	(°C)
-40 to +85	-40 to +85

■ FREQUENCY CHARACTERISTICS

□GPS BAND



□2.4GHz ISM BAND



 \bullet Tested antenna has been soldered. Evaluation board size is 120x65x1 mm.

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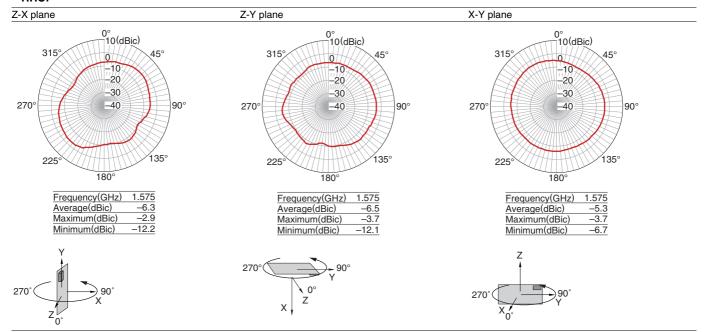
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RADIATION PATTERNS

□GPS BAND

RHCP



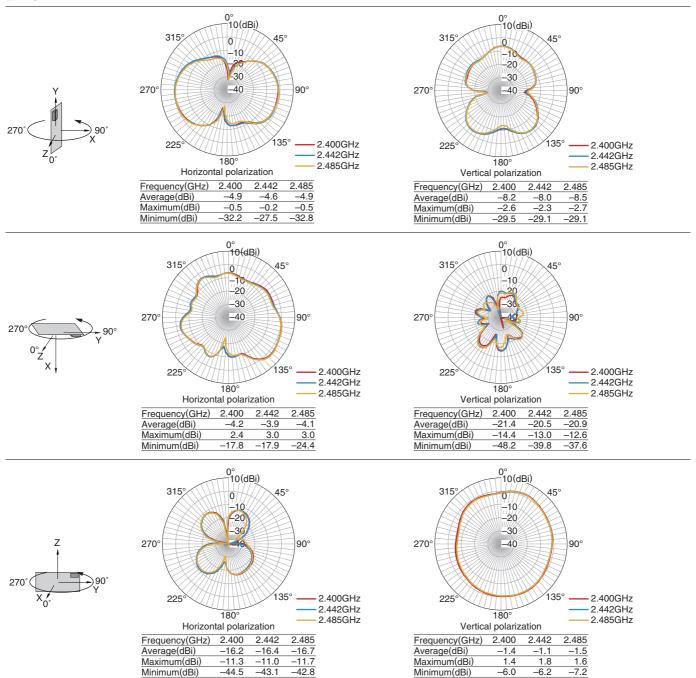
• Tested antenna has been soldered. Evaluation board size is 120×65×1 mm.

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RADIATION PATTERNS

□2.4GHz BAND

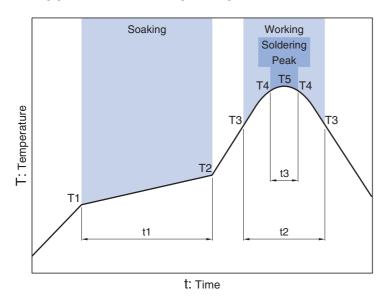


• Tested antenna has been soldered. Evaluation board size is 120×65×1 mm.

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■ RECOMMENDED REFLOW PROFILE

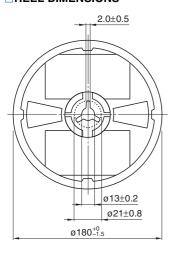


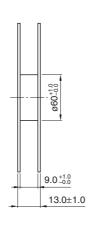
Soaking			Working		Soldering Peak	Soldering Peak		
Temp. Time			Temp.	Time	Temp.	Time	Temp.	
T1	T2	t1	Т3	t2	T4	t3	T5	
150°C	180°C	60 to 120s	230°C	30 to 60s	247 to 253°C	within 10s	260°C max.	

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■PACKAGING STYLE

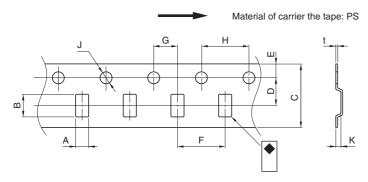
□REEL DIMENSIONS





Dimensions in mm

TAPE DIMENSIONS



Dimensions in								isions in mm		
Α	В	С	D	Е	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

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

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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