

September 2016

Multilayer Antenna (Dual Band type)

For 1574-1576MHz / 2400-2484MHz

ANT016008LCD1575MA1

1.6x0.8mm [EIA 0603]* * Dimensions Code JIS[EIA]



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

Discontinue Issue Date	Jun. 3, 2022
Last Purchase Order Date	Mar. 31, 2023
Last Shipment Date	Mar. 31, 2024

Please refer to our Web site about replacement information.

Multilayer Antenna

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SHAPES AND DIMENSIONS



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.

Conformity to RoHS Directive

EVALUATION BOARD



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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Тур.	Max.	
	1574 to 1576	—	1.50	4.0	
VSWR	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





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

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RADIATION PATTERNS

GPS BAND



• 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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RF Components

RECOMMENDED REFLOW PROFILE



Drohooting		Soldering						
Freneating			Critical zone (T3 to T4)			Peak		
Temp.		Time	Temp.	Time	7	Temp.	Time	
T1	T2	t1	ТЗ	t2		T 4	t3*	
150°C	200°C	60 to 120sec	217°C	60 to 12	20sec	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







Dimensions in mm

TAPE DIMENSIONS



									Dimen	sions in mm
Α	В	С	D	E	F	G	Н	J	K	t
0.97±0.05	1.8±0.05	8.0 <u>±0.2</u>	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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