

September 2016

Multilayer Antenna (Triple Band type)

For 1574-1577MHz / 2400-2484MHz / 5150-5850MHz

ANT025020LCT1575MA1

2.5x2.0mm [EIA 1008]*

* Dimensions Code JIS[EIA]



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

Discontinue Issue Date	Apr. 28, 2021				
Last Purchase Order Date	Dec. 31, 2022				
Last Shipment Date	Mar. 31, 2023				

Please refer to our Web site about replacement information.

Conformity to RoHS Directive

⊗TDK

ANT025020LCT1575MA1



• All specifications are subject to change without notice.

RF Components

ANT025020LCT1575MA1

EVALUATION BOARD



• All specifications are subject to change without notice.

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

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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	1574 to 1577		1.30	4.0
VSWR	2400 to 2484	_	1.80	4.0
	5150 to 5850	—	2.40	4.0
Polarization			Linear	
PCB size (mm)			130 x 75	
Antenna keep-out area (mm)			16 x 6	
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

GPS BAND



2.4GHz BAND



5.5GHz BAND



• Tested antenna has been soldered. Evaluation board size is 130x75x1 mm.

• All specifications are subject to change without notice.

RADIATION PATTERNS

GPS BAND



• Tested antenna has been soldered. Evaluation board size is 130x75x1 mm.

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RADIATION PATTERNS

2.4GHz BAND



• Tested antenna has been soldered. Evaluation board size is 130x75x1 mm.

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RADIATION PATTERNS

5.5GHz BAND



• Tested antenna has been soldered. Evaluation board size is 130x75x1 mm.

• All specifications are subject to change without notice.

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

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RF Components

RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
Tenedding			Critical zone (T3 to T4)		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	ТЗ	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120s	ec 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



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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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