

Datasheet of SAW Device

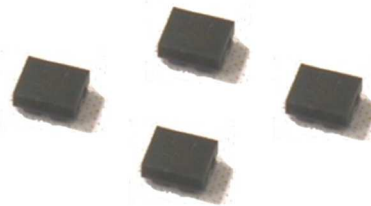
SAW Notch Filter

for GPS_ GLONASS_ BEIDOU / Unbalanced / 10pin /1814

Murata PN: SADRM1G56AB0F0A

■ Feature

- Low Insertion Loss



Note : This Murata SAW Component is Consumer grade product and applicable for Cellular phone or similar end devices.
Please also read Important Notice at the end of this document.

Revision
F

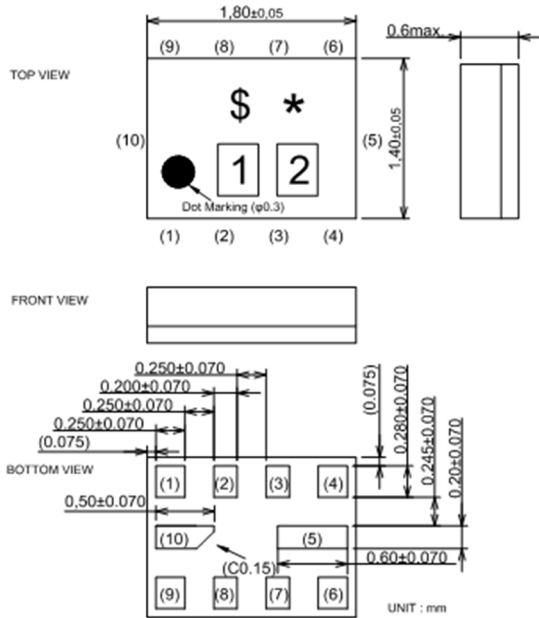
General Information

- Operating temperature		: -20 to +85deg.C
- Storage temperature		: -40 to +85deg.C
- Input Power	Antenna Port	: +13dBm, 50°C, 2000hours, CW tone
	Cellular Port	: +27dBm, 50°C,5000hours (for 699-1510.9MHz, 1710-2690MHz) (1) +25.5dBm, 50°C,5000hours (for 699-1510.9MHz, 1710-2690MHz) (2) +35dBm, 50°C,5000hours, GSM duty cycle 1:8 (for 824-849MHz, 880-915MHz) +33dBm, 50°C,5000hours, GSM duty cycle 1:8 (for 1710-1785MHz, 1850-1910MHz) (1) applicable for W-CDMA, LTE, NR(DFT-s-OFDM) (2) applicable for NR(CP-OFDM)
- D.C. Voltage between the terminals		: 3V (25+/-2 deg.C)
- Minimum Resistance between the terminals		: 1M ohm
- RoHS compliance		: Yes
- ESD (ElectroStatic Discharge) sensitive device		

Package Dimensions & Recommended Land Pattern

unit: mm

Dimensions



Marking : Laser Printing

* : Month code

\$: Date code

1 : H

2 : x

Terminal Number

(1) : Unbalance Port (ANT. Port)

(9) : Unbalance Port (Cellular Port)

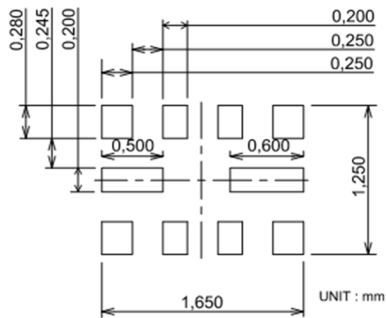
(4) : Unbalance Port

(GPS/GLONASS/BEIDOU Port)

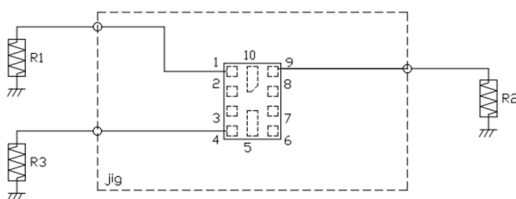
Others : GND.

Notice) Please refer to Measurement Circuit for Port information in detail.

Land Pattern

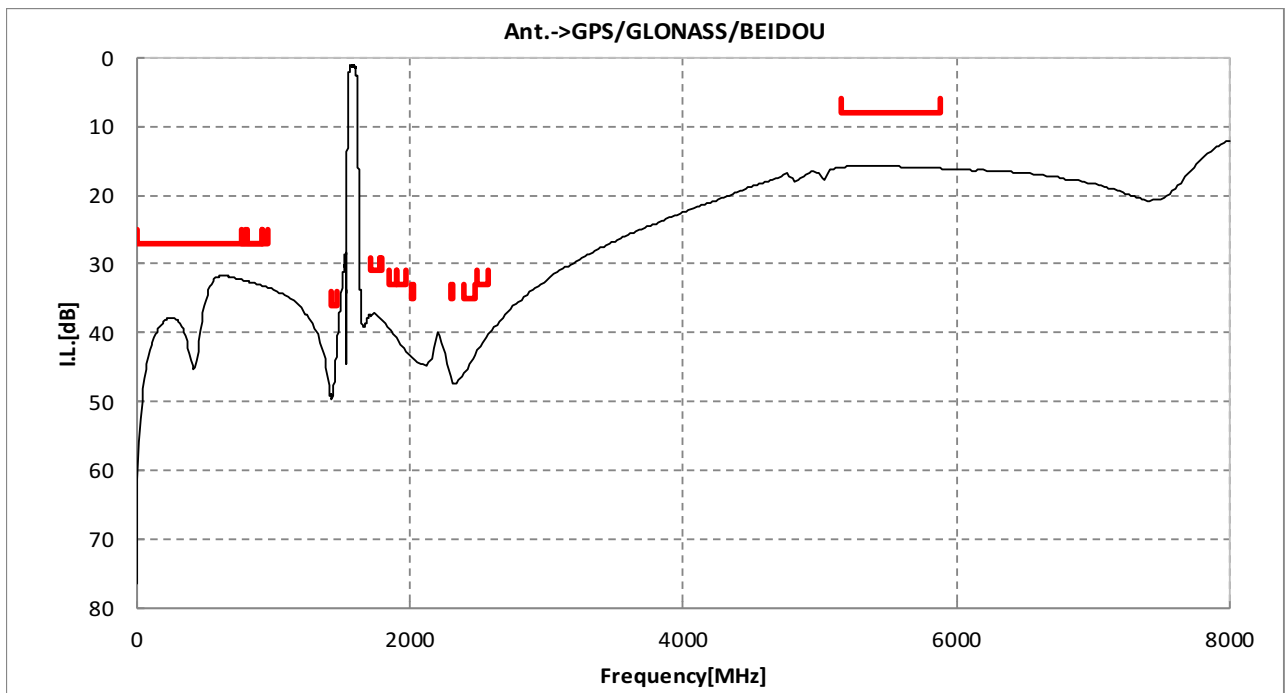
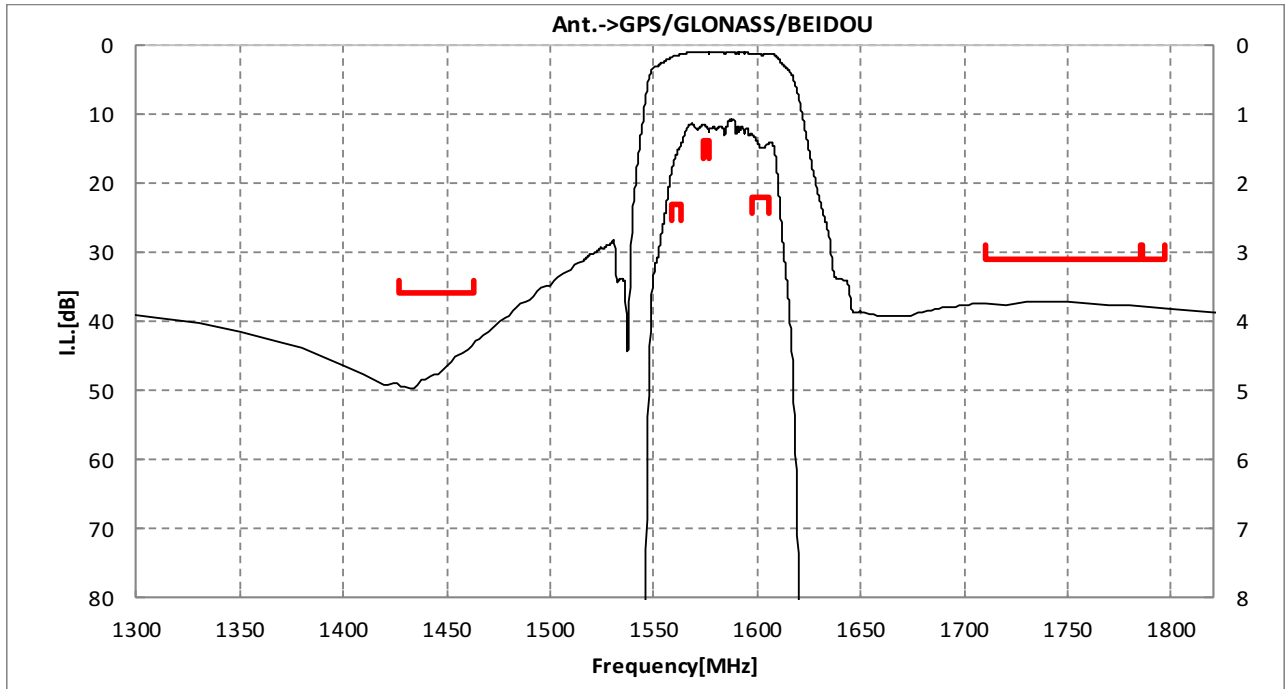


Measurement Circuit (Top Thru View)

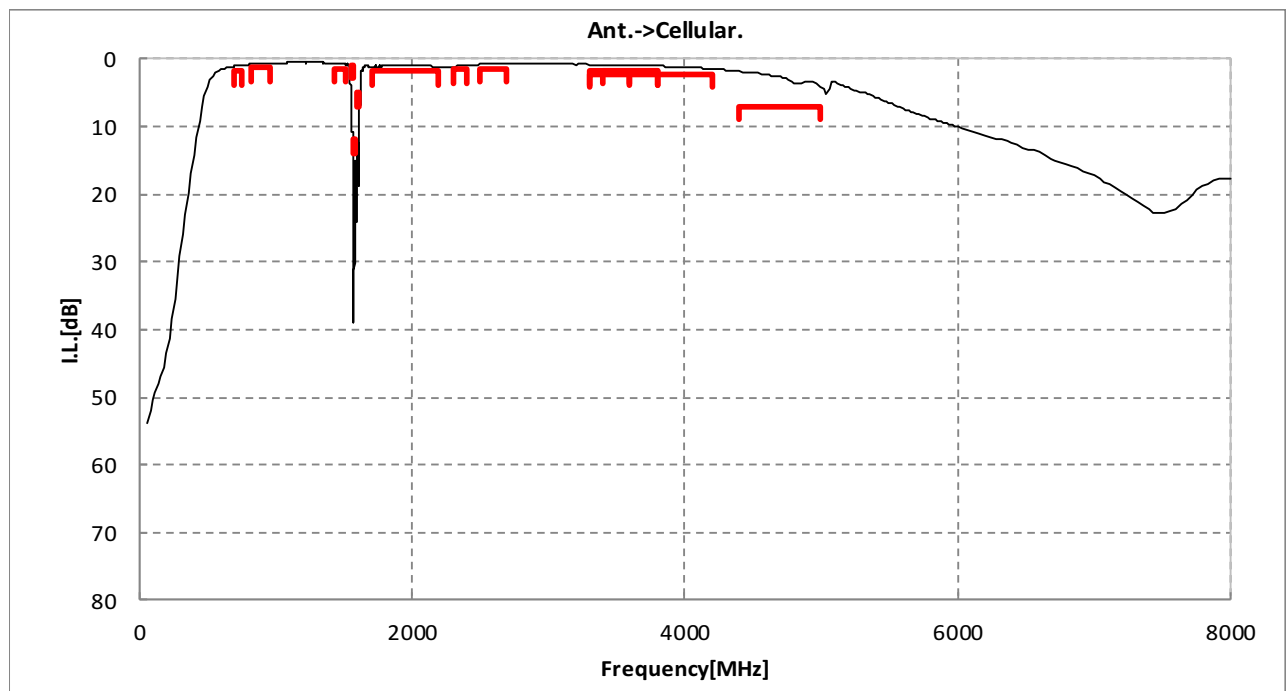
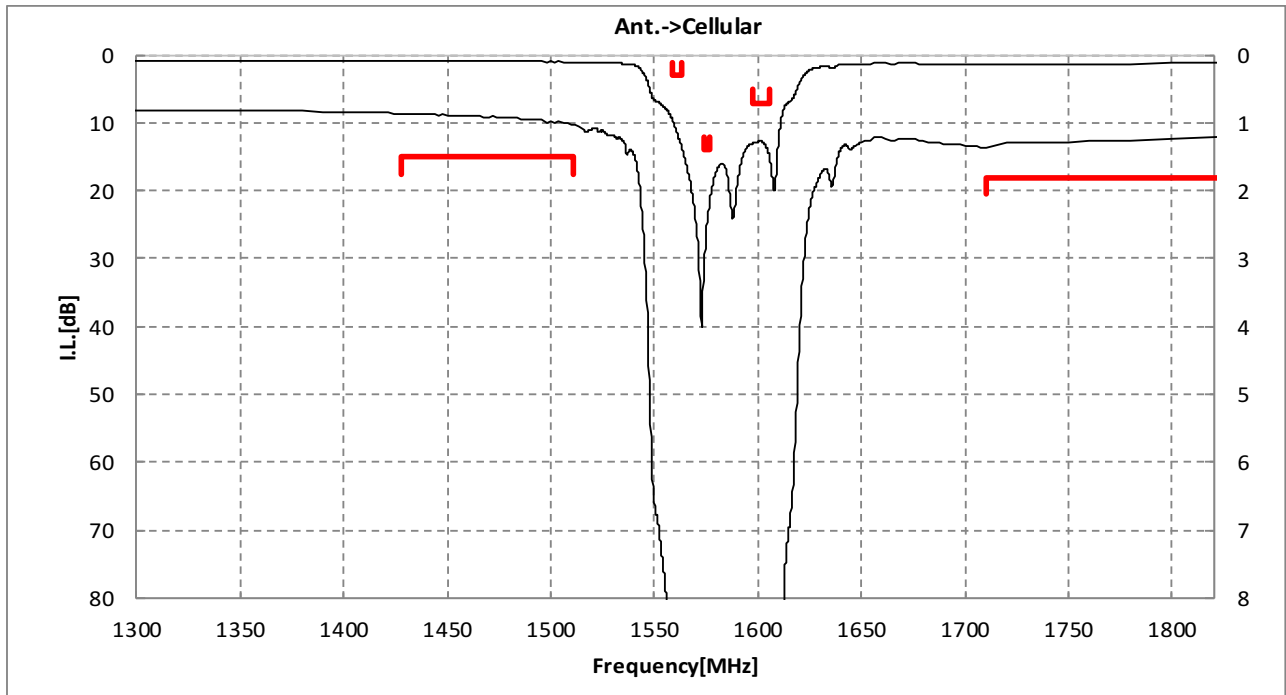


R1 : 50 ohm	
R2 : 50 ohm	
R3 : 50 ohm	

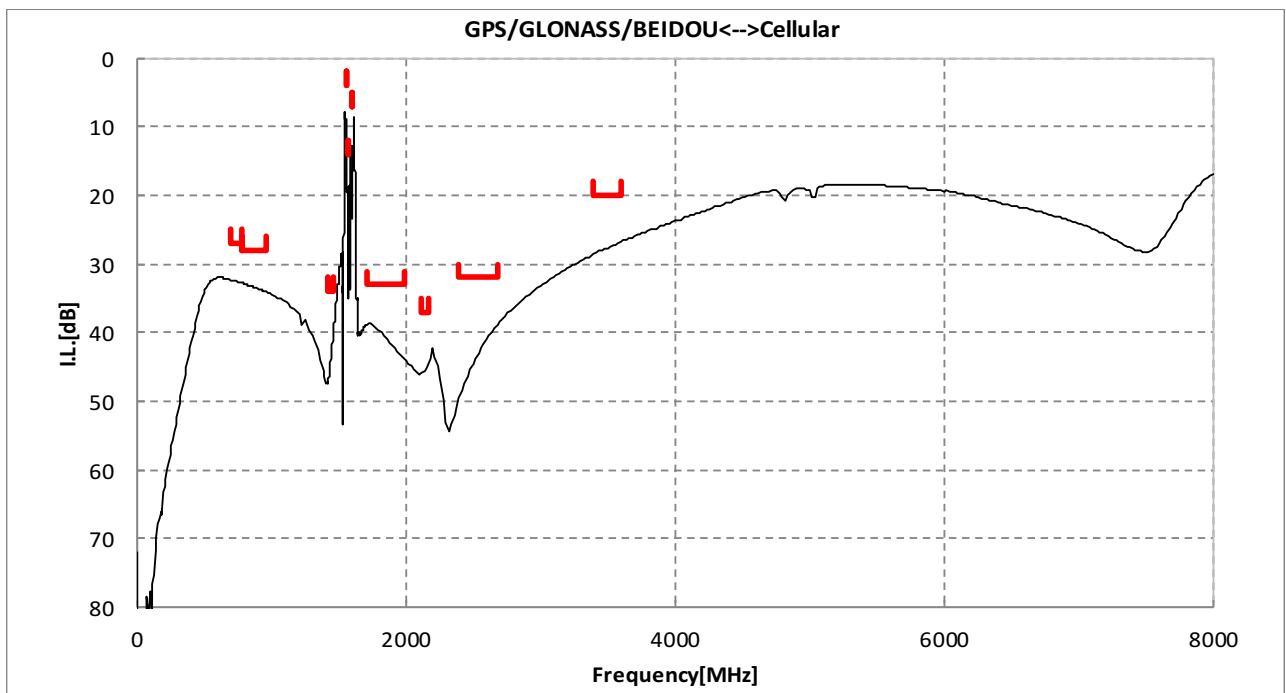
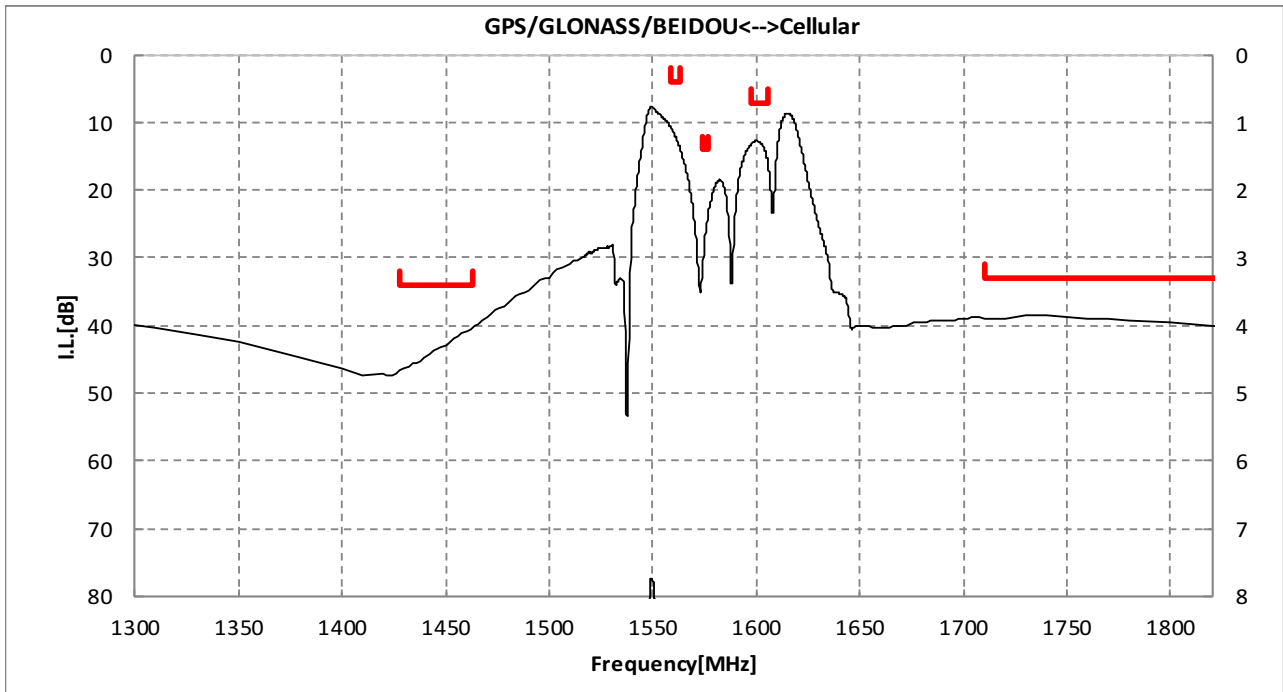
Electrical Characteristic



Electrical Characteristic

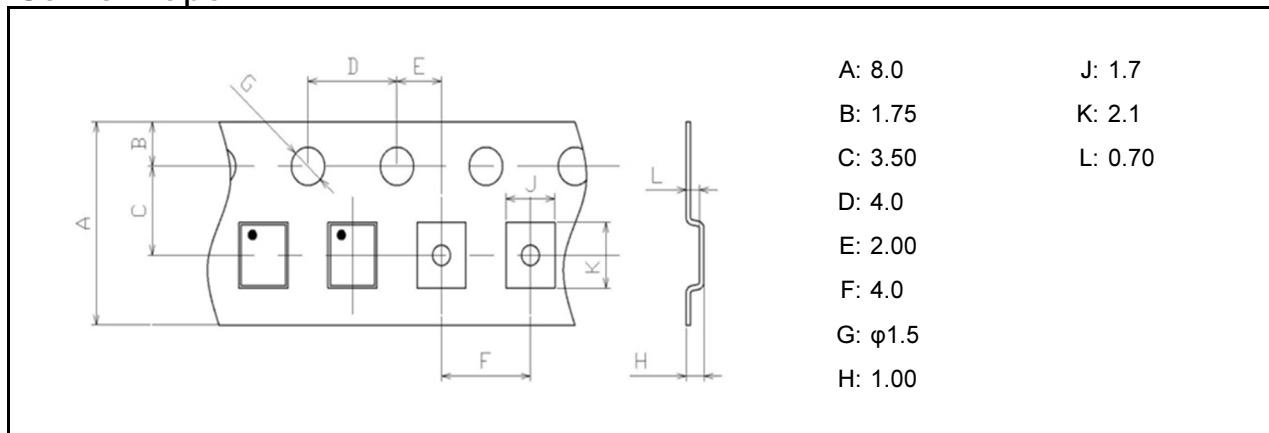


Electrical Characteristic

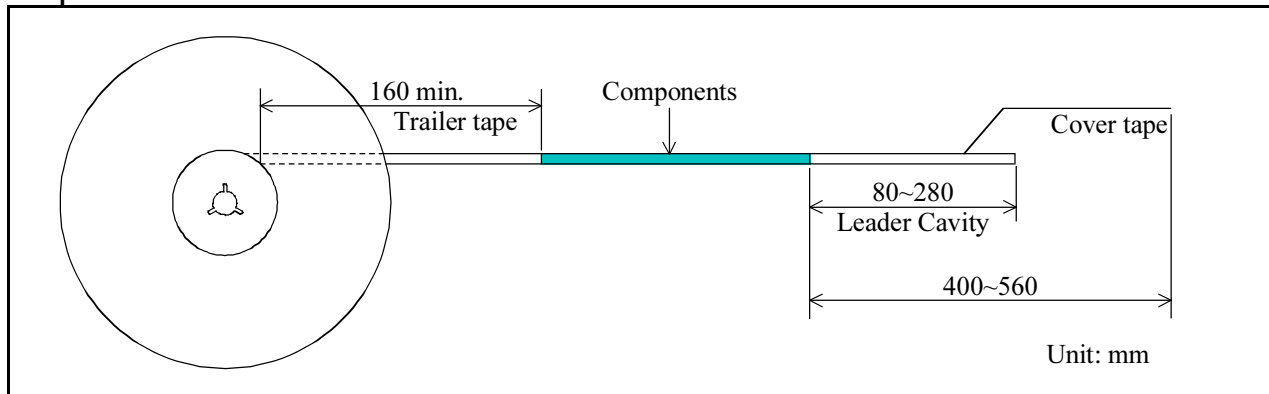


Dimensions of Tape & Reel unit: mm

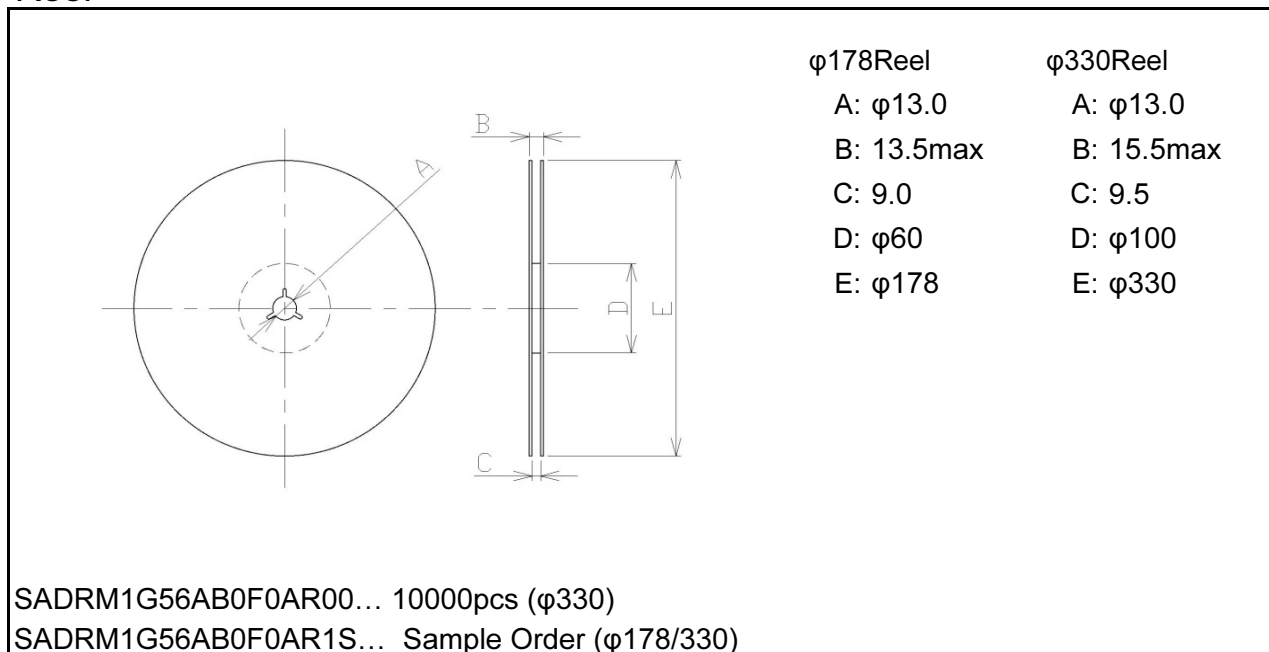
Carrier Tape



Tape



Reel



Important Notice (1/2)

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Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product specified in the front page of this product specifications (the "Product" or "Products") when our Product is mounted to your product.

All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our Product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our Product deviating from the condition and the environment specified in this specification.

Please note that the only warranty that we provide regarding the Product is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such Products, which are caused under the conditions other than those specified in this specification.

WE HEREBY DISCLAIMS ALL OTHER WARRANTIES REGARDING THE PRODUCTS, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, THAT THEY ARE DEFECT-FREE, OR AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS.

The Product shall not be used for any application which requires especially high reliability or accuracy in order to prevent defect which incurs high possibility of damage to the third party's life, body or property such as the applications listed below as item (a) to (j) (the "Prohibited Application"). You acknowledge and agree that, if you use our Products in the Prohibited Applications, we will not be responsible for any damage caused by such use.

Furthermore, YOU AGREE TO INDEMNIFY AND DEFEND US AND OUR AFFILIATES AGAINST ALL CLAIMS, DAMAGES, COSTS, AND EXPENSES THAT MAY BE INCURRED, INCLUDING WITHOUT LIMITATION, ATTORNEY FEES AND COSTS, DUE TO THE USE OF OUR PRODUCTS IN THE PROHIBITED APPLICATIONS.

- (a) Aircraft equipment.
- (b) Aerospace equipment
- (c) Undersea equipment.
- (d) Power plant control equipment
- (e) Medical equipment.
- (f) Transportation equipment (vehicles, automotive, trains, ships, etc.).
- (g) Traffic signal equipment.
- (h) Disaster prevention / crime prevention equipment.
- (i) Burning / explosion control equipment
- (j) Application of similar complexity and/ or reliability requirements to the applications listed in the above.

For the avoidance of doubt, the Product is not automotive grade, and will not support such requests for automotive as below, also not support other specific requests for automotive.

- AEC-Q200
- PPAP
- IATF16949,VDA6.3
- Zero Defect program
- Long product life cycle
- Automotive 8D failure analysis and report

Important Notice (2/2)

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Please do not use the Product in molding condition.

The Product is ESD (ElectroStatic Discharge) sensitive device. When you install or measure this, you should be careful not to add antistatic electricity or high voltage. Please be advised that you had better check anti surge voltage.

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Please do not use our Products, our technical information and other data provided by us for the purpose of developing of mass-destruction weapons and the purpose of military use.

Moreover, you must comply with "foreign exchange and foreign trade law", the "U.S. export administration regulations", etc.

Please note that we may discontinue the manufacture of our products, due to reasons such as end of supply of materials and/or components from our suppliers.

Customer acknowledges that Murata will, if requested by you, conduct a failure analysis for defect or alleged defect of Products only at the level required for consumer grade Products, and thus such analysis may not always be available or be in accordance with your request (for example, in cases where the defect was caused by components in Products supplied to Murata from a third party).

The Product shall not be used in any other application/model than that of claimed to Murata.

Customer acknowledges that engineering samples may deviate from specifications and may contain defects due to their development status.

We reject any liability or product warranty for engineering samples.

In particular we disclaim liability for damages caused by

- the use of the engineering sample other than for evaluation purposes, particularly the installation or integration in the Product to be sold by you,
- deviation or lapse in function of engineering sample,
- improper use of engineering samples.

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