

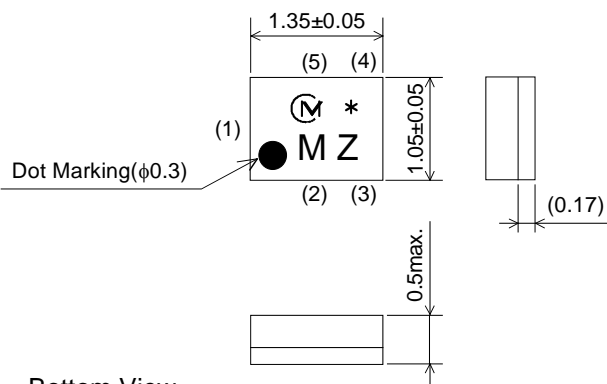
SAW FILTER FOR GSM900/Band8 Rx

Murata part number: SAFEA942MFL0F00

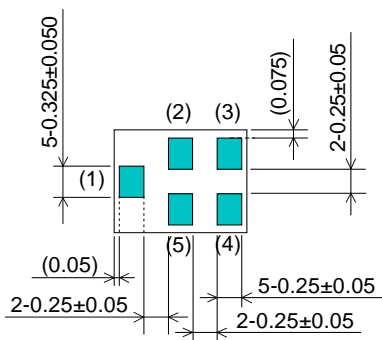
Package Dimensions

Specification

Top View



Bottom View



Marking
: Laser Printing

(1) : Unbalance Port
(3)(4) : Balance Port
Others : Ground

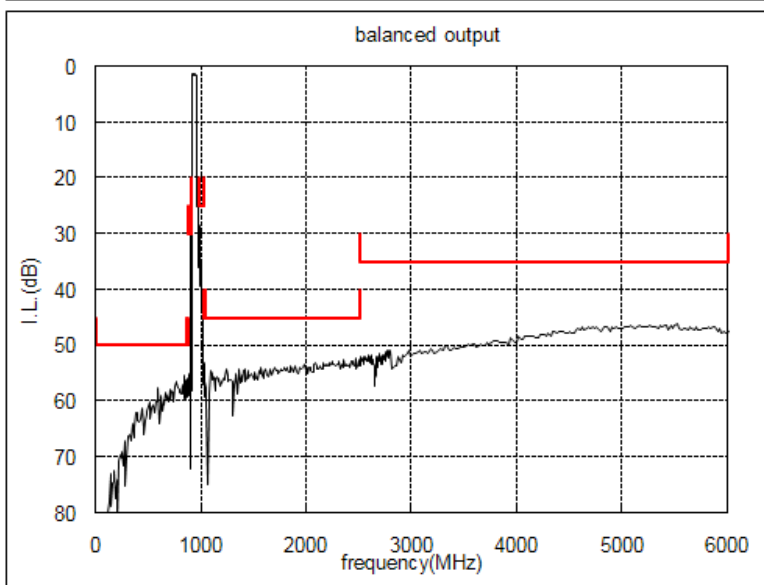
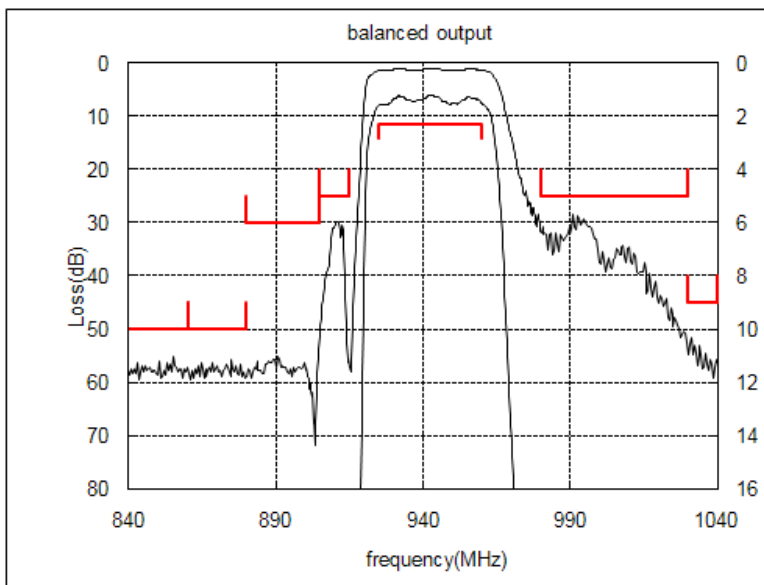
Unit : mm

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	942.5MHz		
Insertion Loss (925 to 960 MHz)	2.3 dB max.	1.9 dB max.	1.6 dB
Absolute Attenuation			
1) 0.1 to 860 MHz	50 dB min.	50 dB min.	58 dB
2) 860 to 880 MHz	50 dB min.	50 dB min.	58 dB
3) 880 to 905 MHz	30 dB min.	30 dB min.	49 dB
4) 905 to 915 MHz	25 dB min.	25 dB min.	29 dB
5) 980 to 1030 MHz	25 dB min.	25 dB min.	29 dB
6) 1030 to 1040 MHz	45 dB min.	45 dB min.	50 dB
7) 1040 to 2500 MHz	45 dB min.	45 dB min.	55 dB
8) 2500 to 6000 MHz	35 dB min.	35 dB min.	49 dB
Ripple Deviation (925 to 960 MHz)	1.4dB max.	0.9dB max.	0.4 dB
VSWR (925 to 960 MHz)	2.0 max.	1.9 max.	1.7
Amplitude Balance (925 to 960 MHz)	±0.5dB max.	±0.5dB max.	±0.2 dB
Phase Balance (925 to 960 MHz)	180±5deg. max.	180±5deg. max.	±1.5 deg.
Balance Port Matching Impedance (nominal)	150Ω//82nH		
Unbalance Port Matching Impedance (nominal)	50Ω		
Input Signal Level	31.6mW (+15dBm), 2000 hours		

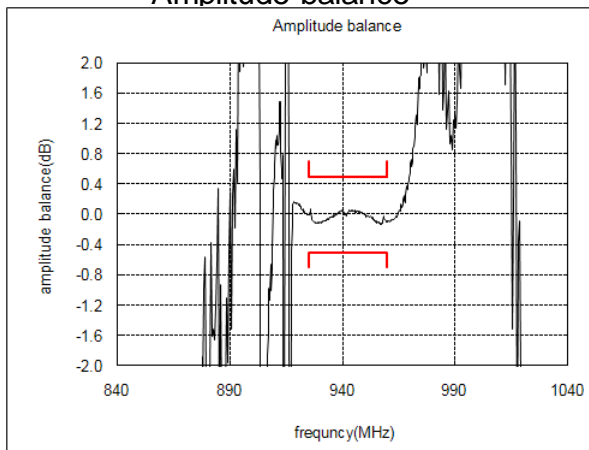
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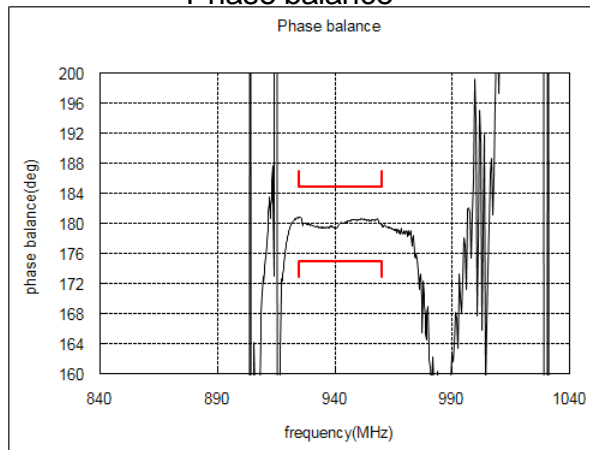
Frequency Performance



Amplitude balance



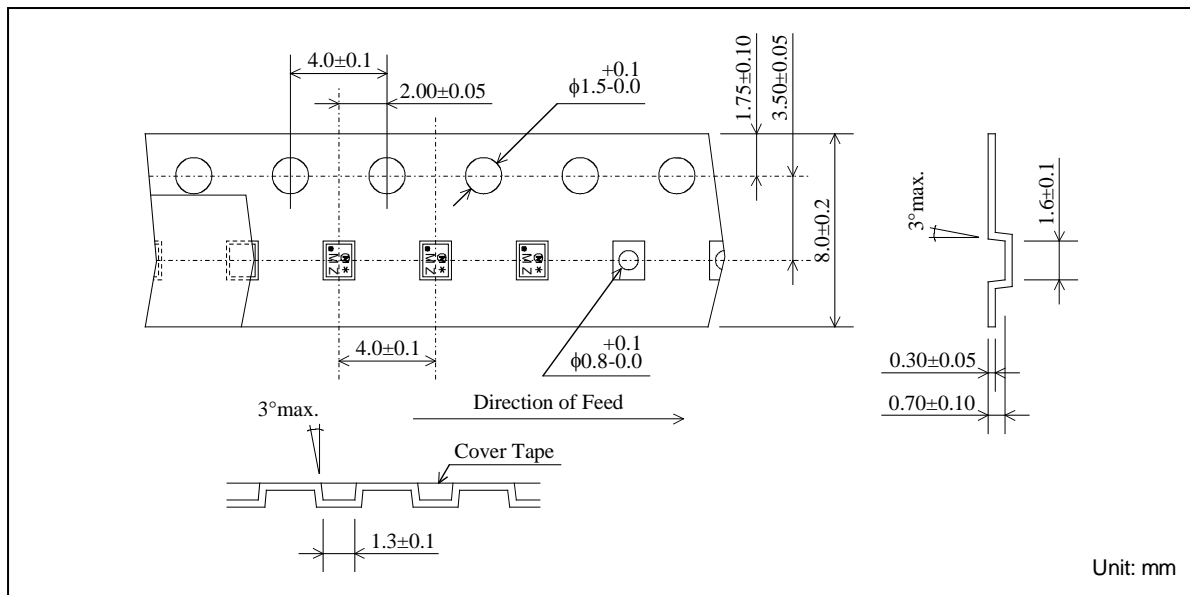
Phase balance



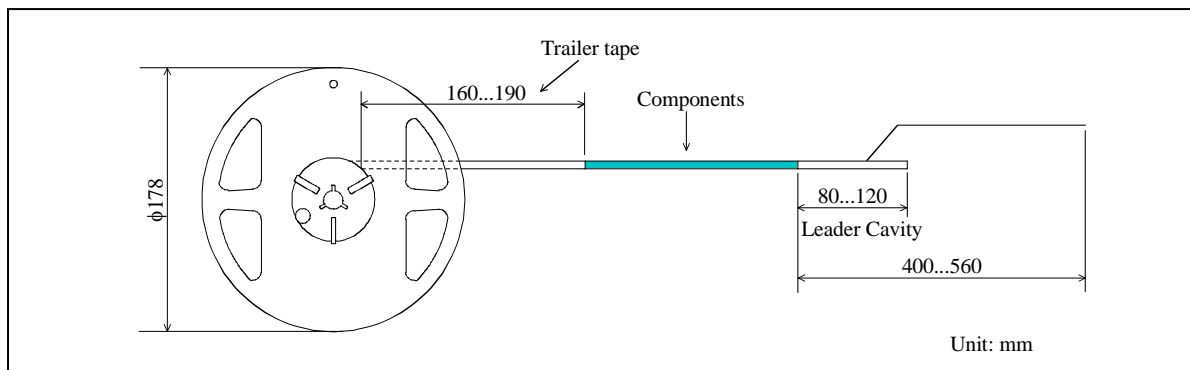
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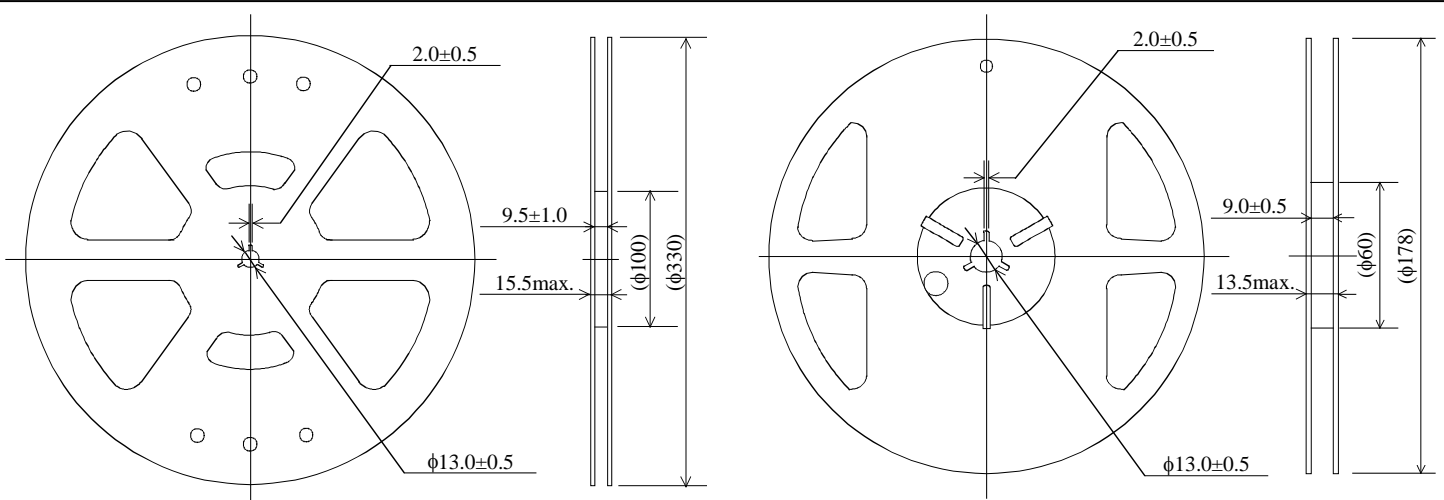
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAFEA942MFL0F00R00 ... 10000pcs/reel

SAFEA942MFL0F00R15 ... 5000pcs/reel

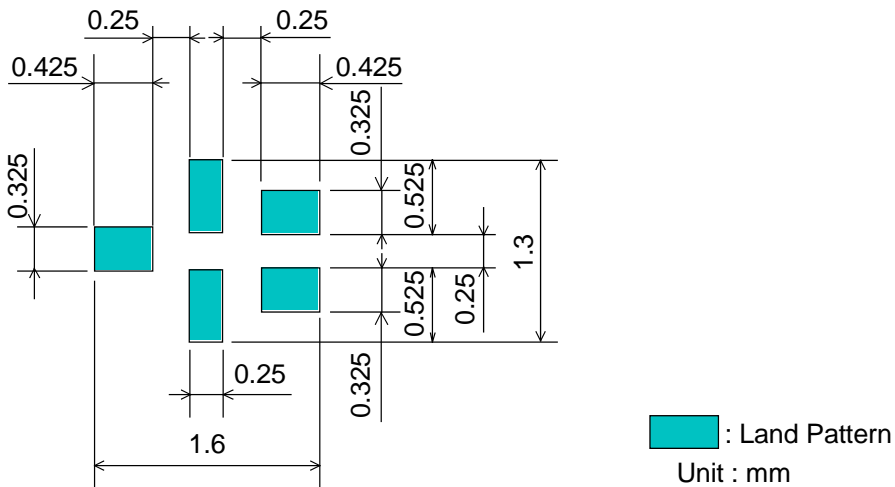
Unit: mm

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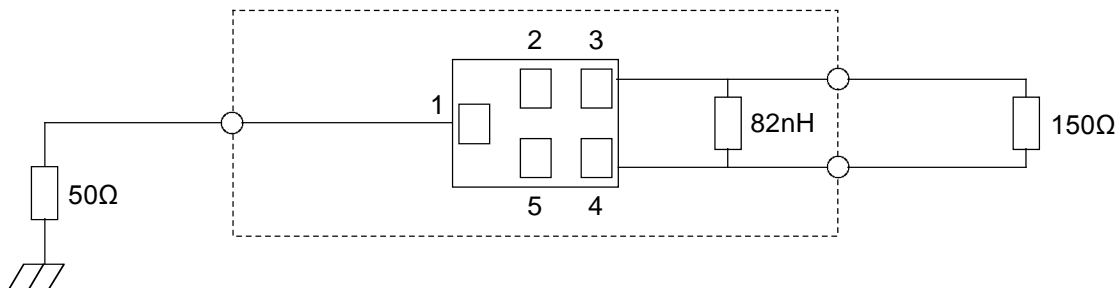
Recommended Land Pattern

Top View



Test Circuit

Bottom View



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■ RoHS Compliance

This component is compliant with RoHS directive.

This component was always RoHS compliant from the first date of manufacture.

• Caution - Limitation of Applications

This product is intended for the following applications only; however, please do not use this product in these applications where defects might directly cause damage to a third party's life, body or property.

- a. Mobile Telephone
- b. Cordless phone (except for Automotive use)
- c. PC (Including Notebook PC, Netbook PC, Tablet)
- d. Game
- e. Camera (except for Business/security use)
- f. Set Top Box
- g. Electronic dictionary
- h. Digital audio equipment

• This catalog is for reference only and not an official product specification document, therefore, please review and approve our official product specification before ordering this product.

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PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product 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 products 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.

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- Aircraft equipment.
- Aerospace equipment
- Undersea equipment.
- Power plant control equipment - Medical equipment.
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Traffic signal equipment.
- Disaster prevention / crime prevention equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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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.

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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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