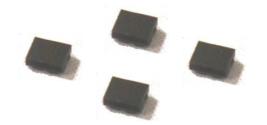
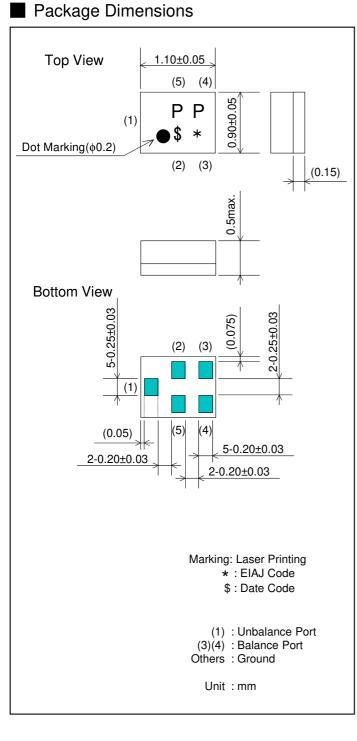


Data Sheet of SAW Components



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.



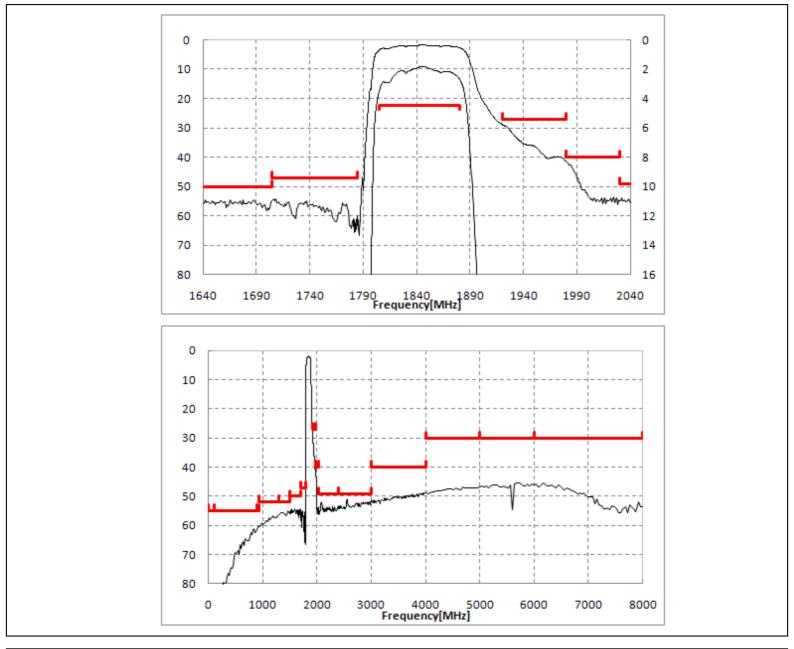


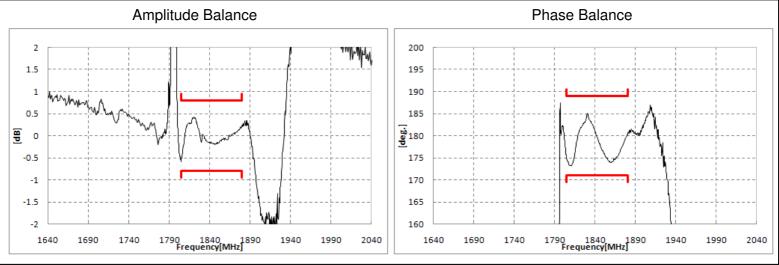
Specification

ltem			Specification		
			-30 to 85°C	25±2°C	typ.
Nomir	nal Center Fre	equency(fc)	1842.5 MHz		
	ion Loss 5 to 1880 MH:	z)	4.5 dB max.	4.0 dB max.	3.5 dB
Abso	lute Attenuat	ion			
1)	0.2 to	100 MHz	55 dB min.	55 dBmin.	94 dB
2)	100 to	902 MHz	55 dB min.	55 dBmin.	63 dB
3)	902 to	940 MHz	55 dB min.	55 dBmin.	63 dB
4)	940 to	1300 MHz	52 dB min.	52 dBmin.	60 dB
5)	1300 to	1500 MHz	52 dB min.	52 dBmin.	60 dB
6)	1500 to	1705 MHz	50 dB min.	50 dBmin.	60 dB
7)	1705 to	1785 MHz	45 dB min.	47 dBmin.	58 dB
8)	1920 to	1980 MHz	27 dB min.	27 dBmin.	29 dB
9)	1980 to	1980.2 MHz	40 dB min.	40 dBmin.	42 dB
10)	1980.2 to	2030 MHz	40 dB min.	40 dBmin.	42 dB
11)	2030 to	2400 MHz	49 dB min.	49 dBmin.	55 dB
12)	2400 to	3000 MHz	49 dB min.	49 dBmin.	56 dB
13)	3000 to	4000 MHz	40 dB min.	40 dBmin.	60 dB
14)	4000 to	5000 MHz	30 dB min.	30 dBmin.	58 dB
15)	5000 to	6000 MHz	30 dB min.	30 dBmin.	56 dB
16)	6000 to	8000 MHz	30 dB min.	30 dBmin.	47 dB
17)	8000 to	12750 MHz	30 dB min.	30 dB min.	45 dB
	e Deviation 5 to 1880 MHz	z)	3.0 dB max.	2.5 dB max.	1.7dB
VSW (1805	R 5 to 1880 MH:	z)	2.0 max.	2.0 max.	1.8
-	tude Balance 5 to 1880 MHz		±0.8dB max.	±0.8dB max.	0.4dB
	e Balance 5 to 1880 MH:	z)	180±9 deg. max.	180±9 deg. max.	180+6 deg.
(nomi	nal)	atching Impedance	50_{Ω}		
Balance Port Matching Impedance (nominal)			100 <u>Ω</u> //18nH		
Input Signal Level			20mW (+13dBm), 2000 hours		

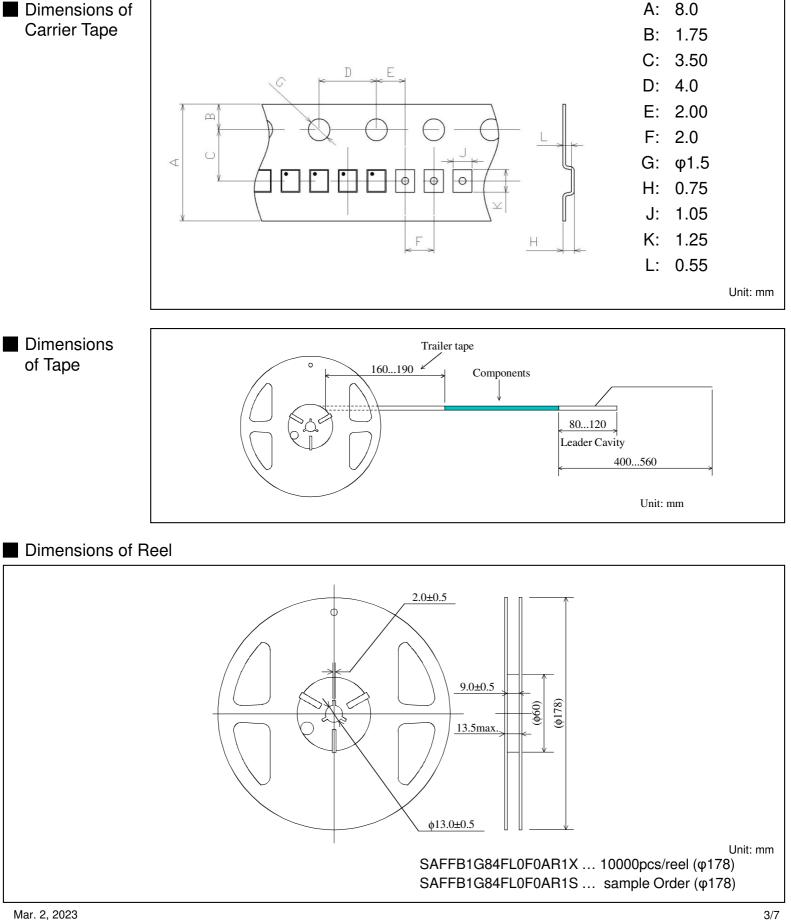


Frequency Performance



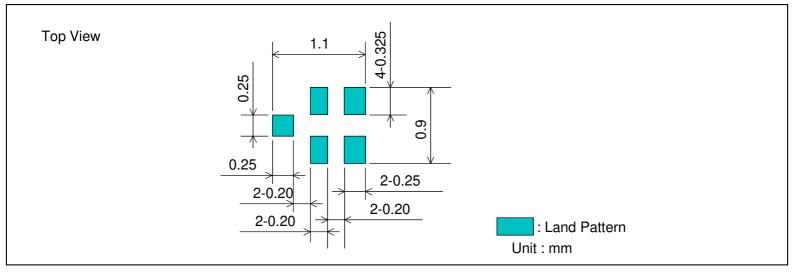




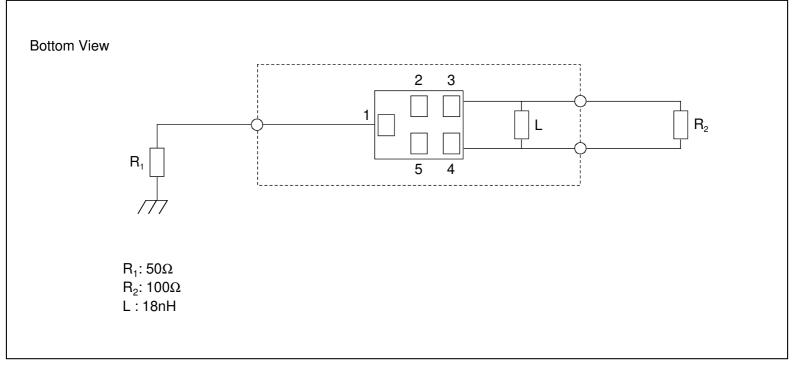




Recommended Land Pattern



Test Circuit





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.



■Important notice

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 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



We expressly prohibit you from analyzing, breaking, Reverse-Engineering, remodeling altering, and reproducing our product. Our product cannot be used for the product which is prohibited from being manufactured, used, and sold by the regulations and laws in the world.

Please do not use the Product in molding condition.

This 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 serge voltage.

We do not warrant or represent that any license, either express or implied, is granted under any our patent right, copyright, mask work right, or our other intellectual property right relating to any combination, machine, or process in which our Products or services are used. Information provided by us regarding third-party products or services does not constitute a license from us to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from us under our patents or other intellectual property.

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.

We disclaim any liability for consequential and incidental damages.

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