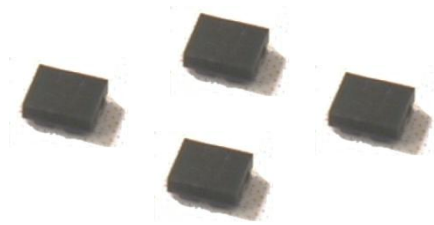
Data Sheet of SAW Components

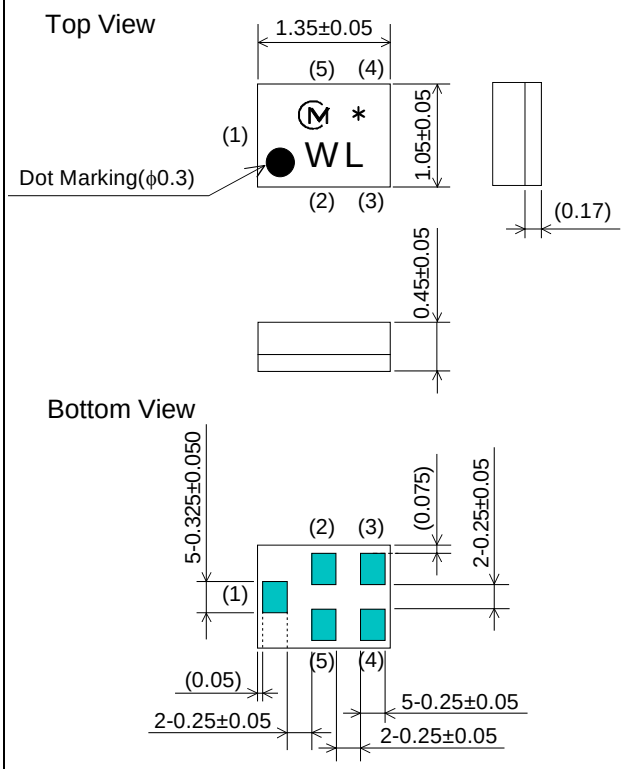


Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.
Please also read caution at the end of this document.

SAW FILTER FOR GPS

Murata part number :SAFEA1G57FC0F00

■ Package Dimensions



Marking
: Laser Printing

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

Unit : mm

■ Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1575.5MHz		
Insertion Loss (1574.42 to 1576.42 MHz)	1.6 dB max.	1.4 dB max.	1.2 dB
Absolute Attenuation			
1) 0.1 to 915 MHz	40 dB min.	40 dB min.	52 dB
2) 915 to 1429 MHz	30 dB min.	30 dB min.	42 dB
3) 1429 to 1453 MHz	36 dB min.	36 dB min.	41 dB
4) 1453 to 1515 MHz	18 dB min.	18 dB min.	31 dB
5) 1500 to 1500 MHz	26 dB min.	26 dB min.	39 dB
6) 1515 to 1550 MHz	1.5 dB min.	1.5 dB min.	2.4 dB
7) 1611 to 1627 MHz	7 dB min.	7 dB min.	12 dB
8) 1625 to 1625 MHz	15 dB min.	15 dB min.	25 dB
9) 1627 to 1670 MHz	18 dB min.	18 dB min.	29 dB
10) 1670 to 1710 MHz	25 dB min.	25 dB min.	35 dB
11) 1710 to 1850 MHz	35 dB min.	35 dB min.	38 dB
12) 1850 to 1920 MHz	40 dB min.	40 dB min.	45 dB
13) 1920 to 1980 MHz	40 dB min.	40 dB min.	44 dB
14) 1980 to 2400 MHz	32 dB min.	32 dB min.	36 dB
15) 2400 to 2500 MHz	35 dB min.	35 dB min.	40 dB
16) 2500 to 4300 MHz	28 dB min.	28 dB min.	33 dB
17) 4300 to 6000 MHz	25 dB min.	25 dB min.	33 dB
Ripple Deviation (1574.42 to 1576.42 MHz)	0.6 dB max.	0.4 dB max.	0.1 dB
VSWR (1574.42 to 1576.42 MHz)	1.6 max.	1.4 max.	1.3
Amplitude Balance (1574.42 to 1576.42 MHz)	±1.3dB max.	±1.2dB max.	+0.4dB
Phase Balance (1574.42 to 1576.42 MHz)	180±9deg. max.	180±8deg. max.	180+5.1deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	100Ω		
Input Signal Level	20mW (+13dBm), 2000 hours		

SAW FILTER FOR GPS

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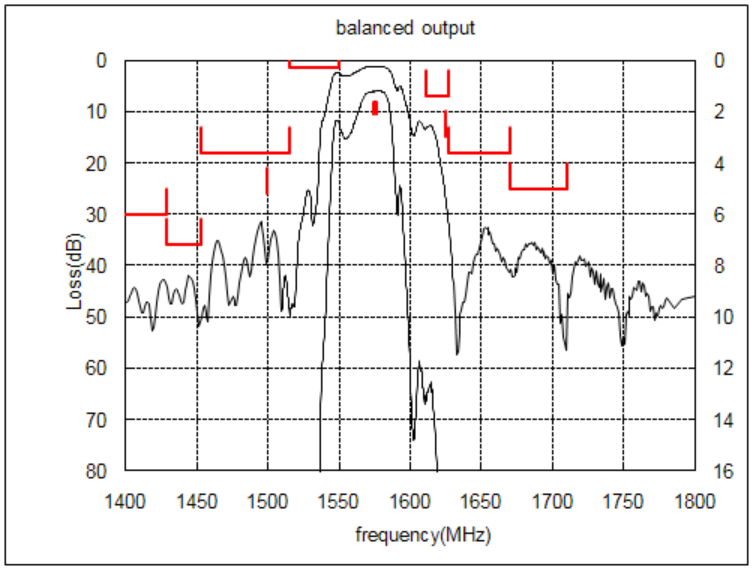
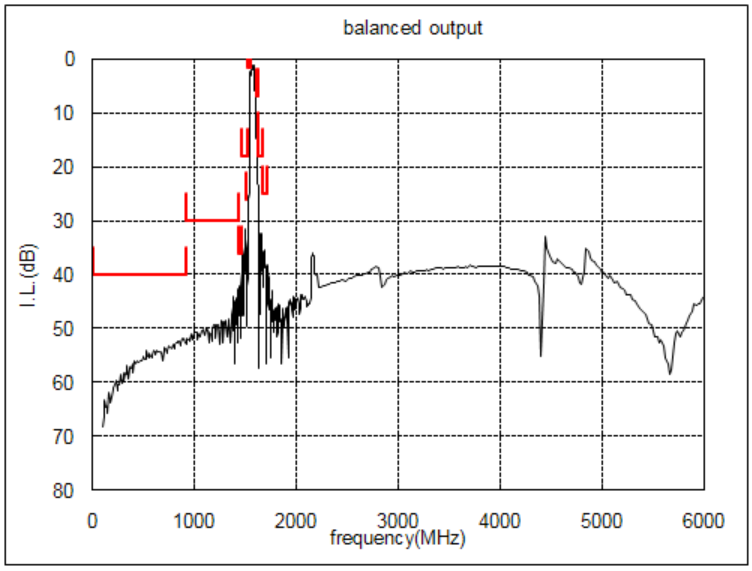
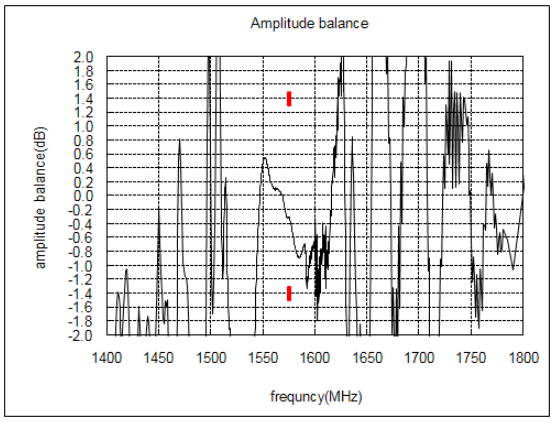
Frequency Performance

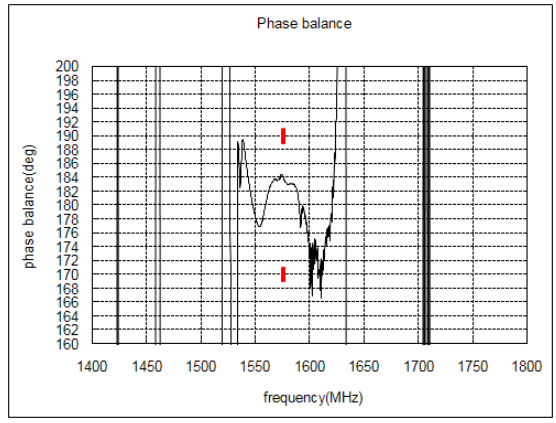




Amplitude balance



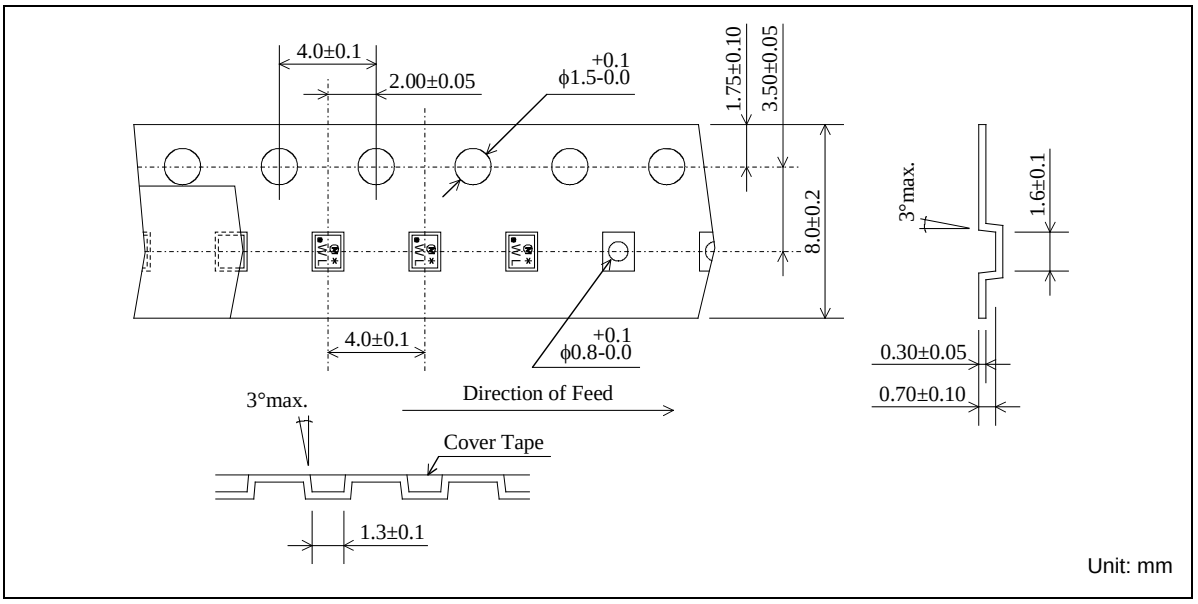
Phase balance



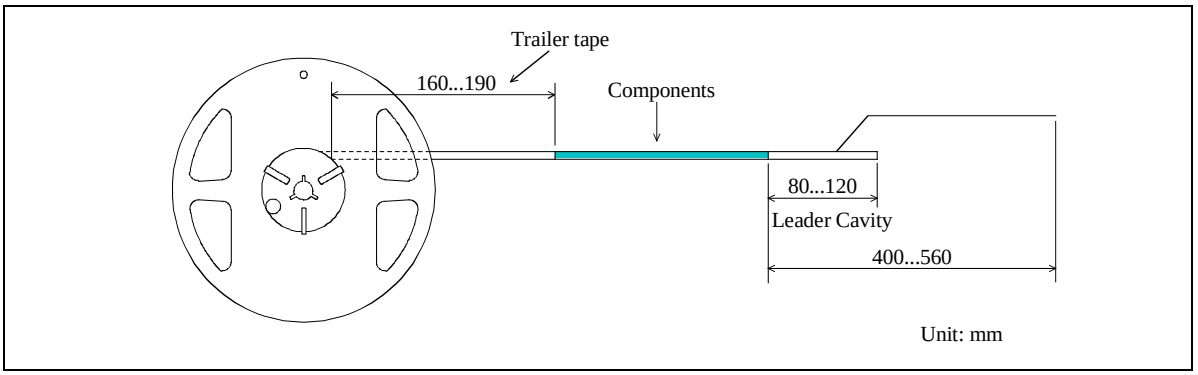
SAW FILTER FOR GPS

Murata part number :SAFEA1G57FC0F00

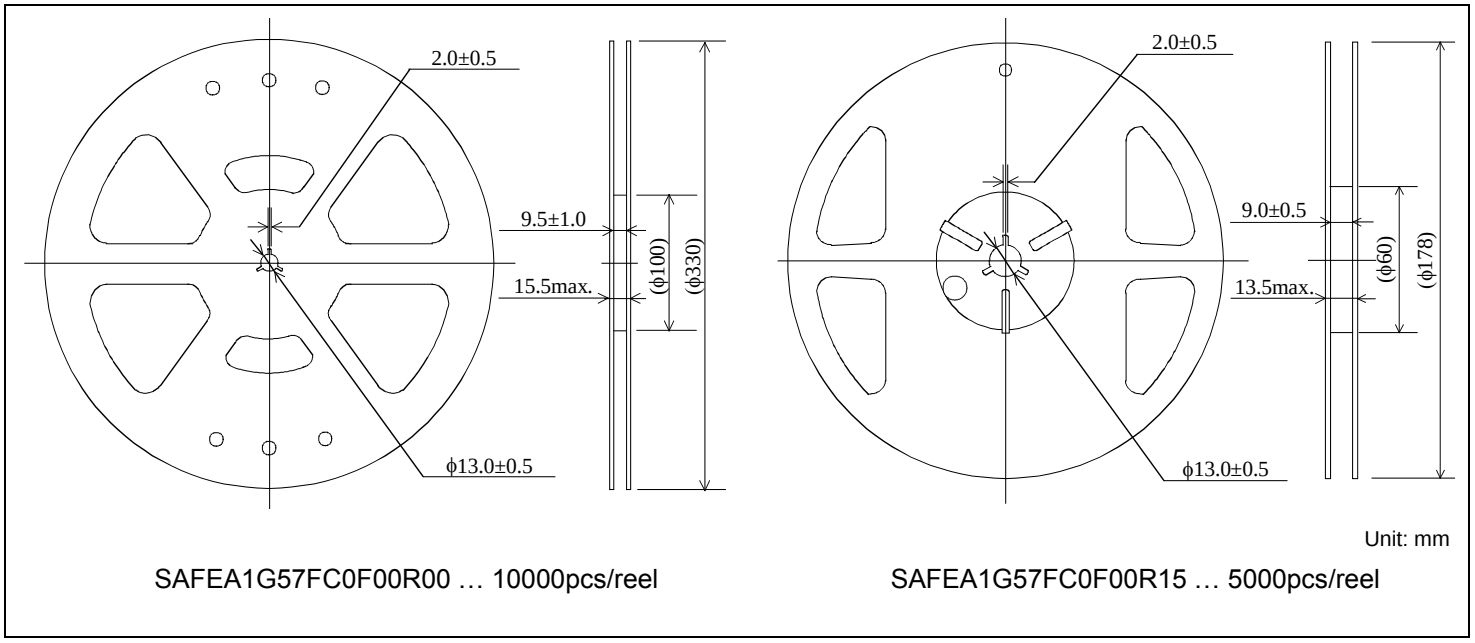
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAFEA1G57FC0F00R00 … 10000pcs/reel

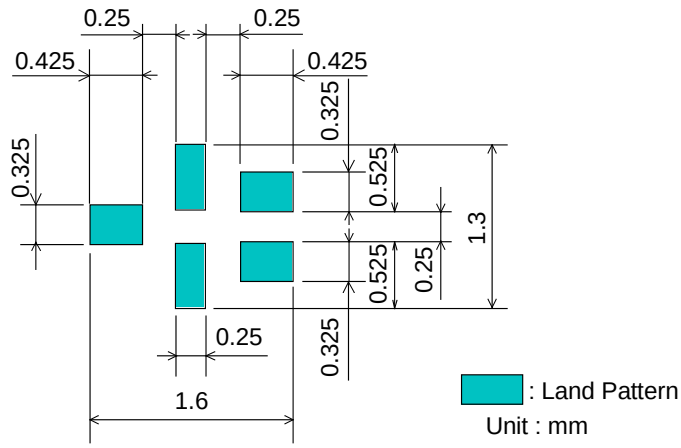
SAFEA1G57FC0F00R15 … 5000pcs/reel

SAW FILTER FOR GPS

Murata part number :SAFEA1G57FC0F00

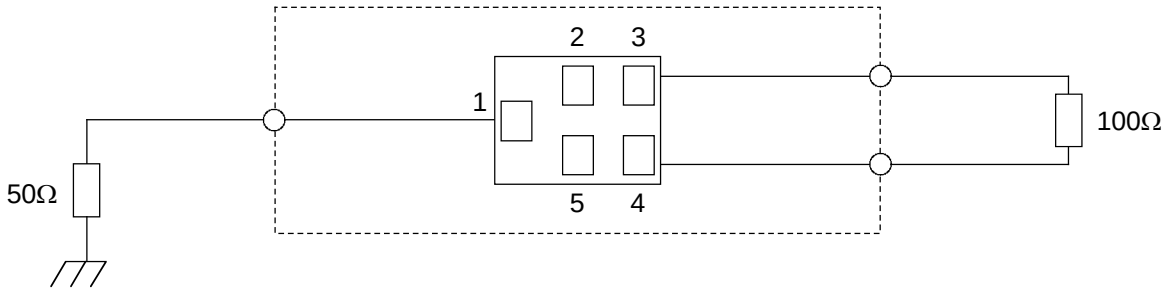
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW FILTER FOR GPS

Murata part number :SAFEA1G57FC0F00

■ 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.