

Datasheet of SAW Device

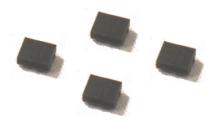
SAW Single Filter

for B39 / Balanced / 5pin /1109

Murata PN: SAFFB1G90FC0F0A

Feature

➤ for GSM1800 Co-ex



Note: Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.



Revision No.	Date	Discription
SAFFB1G90FC0F0A_rev. A	Apr-11-2013	■ Initial Release

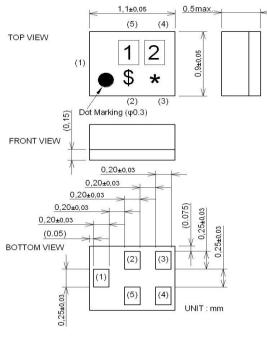
Operating temperature
 Storage temperature
 Input Power
 D.C. Volatage between the terminals
 :-30 to +85 deg.C
 :-40 to +85 deg.C
 :+13 dBm 2000 h
 :3V (25+/-2 deg.C)

Minimum Resistance betweem the terminals
 RoHS compliance
 Yes



Package Dimensions & Recommended Land Pattern unit: mm

Dimensions



Marking: Laser Printing

* : Month code(Refer to the table A)

\$: Date code(Refer to the table B)

1 : V

2:T

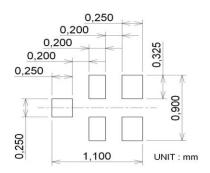
Terminal Number

(1): Unbalance Port

(3)(4) :Balance Port

Others: GND.

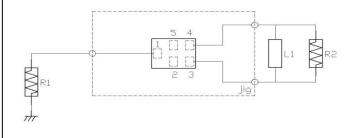
Land Pattern



Measurement Circuit (Top View)

R1:50 ohm

R2:100 ohm L1:15 nH(Ideal inductor)





Matching Impedance (nominal)

- :Unbalance Port : 50 ohm

- :Balance Port : 100 ohm // 15 nH(Ideal inductor)

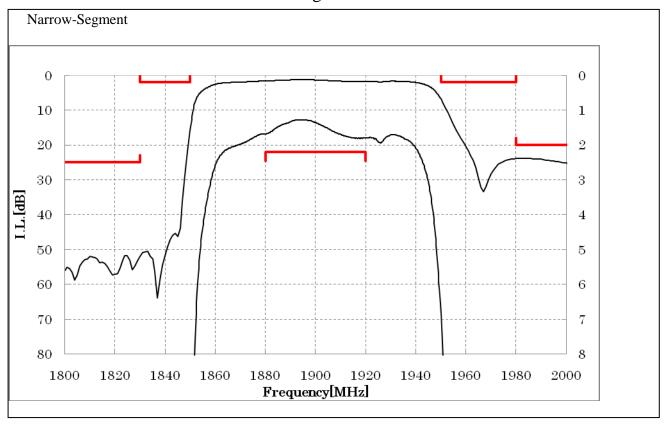
	Item				Characteristics (-30 to +85 deg.C)			Unit	Note
	Item			min.	typ.	max.	Cinc	Trote	
Center Frequency						1900		MHz	
Insertion Loss	1880.	to	1920.	MHz		1.8	2.4	dB	
	1880.	to	1920.	MHz		1.8	2.2	dB	+23 to +27deg.C
Ripple Deviation	1880.	to	1920.	MHz		0.5	1.5	dB	,
VSWR	1880.	to	1920.	MHz		1.9	2.3		
Amplitude Balance	1880.	to	1920.	MHz	-1.5	+0.9	+1.5	dB	
Phase Balance	1880.	to	1920.	MHz	170	183	190	deg.	
Absolute Attenuation	10.	to	915.	MHz	50	57		dB	
	915.	to	1710.	MHz	30	35		dB	
	1710.	to	1785.	MHz	45	49		dB	
	1785.	to	1830.	MHz	25	50		dB	
	1830.	to	1850.	MHz	2	16		dB	
	1950.	to	1980.	MHz	2	6		dB	
	1980.	to	2010.	MHz	20	23		dB	
	2010.	to	2025.	MHz	24	26		dB	
	2025.	to	2400.	MHz	20	28		dB	
	2400.	to	2500.	MHz	45	49		dB	
	2500.	to	6000.	MHz	30	38		dB	

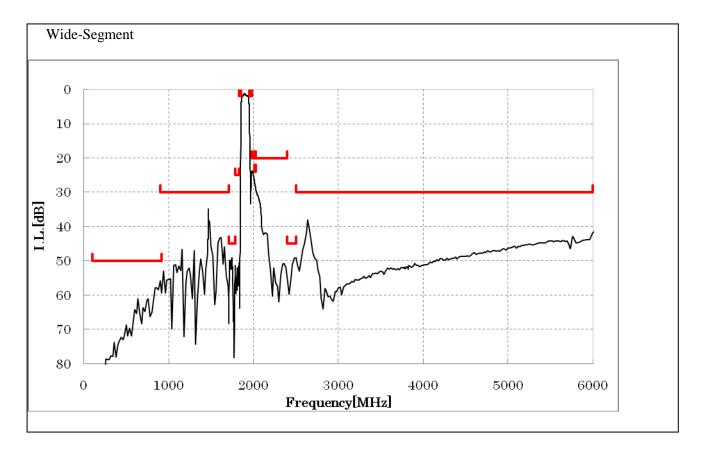
^{*} Typical value at 25±2deg.C



Electrical Characteristic

< Single Filter >

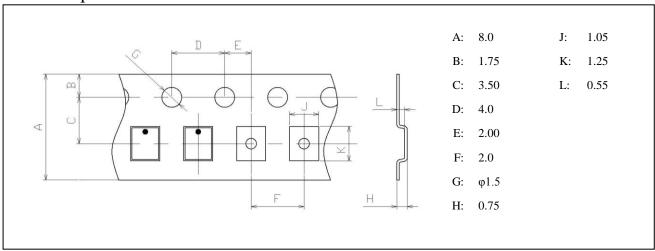




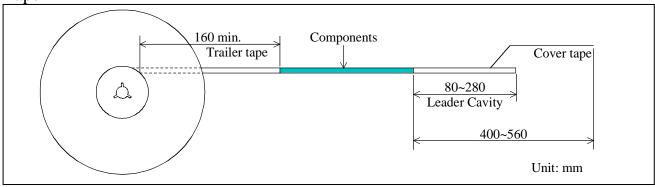


Dimensions of Tape & Reel unit: mm

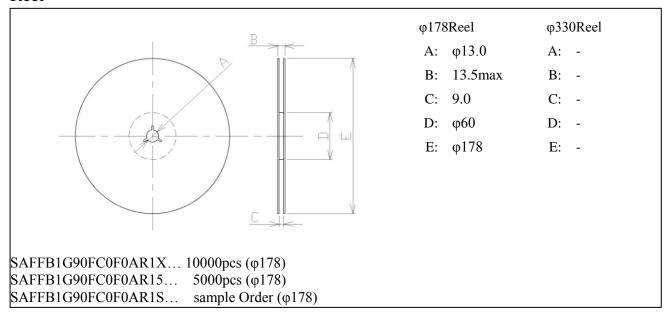
Carrier Tape



Tape



Reel





Marking Code

Table A: Month Code

200	09	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
20° 20°		Α	В	С	D	Е	F	G	Н	J	K	L	М
20	10	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
20° 20°		Ν	Р	Q	R	S	Т	U	٧	W	X	Υ	Z
20	11	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
20° 20°		а	b	10	d	е	f	g	h	j	k	l	m
20	12	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
20° 20°		n	p	G	r	4	t	u	V	W	x	y	3

Table B: Date Code

date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	Α	В	С	D	Е	F	G	Н	J	K	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	М	Ν	Р	Q	R	S	Т	U	V	
date	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	Χ	Υ	Z	а	b	10	d	е	f	g

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- Undersea equipment.
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- Traffic signal equipment.
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- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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 - ·deviation or lapse in function of engineering sample,
 - improper use of engineering samples.

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