

Datasheet of SAW Device

SAW Single Filter

for Band20 / Balanced / 5pin /1109

Murata PN: SAFFB806MFA0F0A

Feature

- ➤ Diversity filter for Band20
- ➤ High attenuation on Tx band
- ➤ Small package size 1109



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

Please also read caution at the end of this document.



$SAFFB806MFA0F0A \quad (\ Band20\ /\ Balanced\ /\ 5pin\ /\ 1109\)$

Revision No.	Date	Discription
	Dec-17-2012	■ Initial Release
SAFFB806MFA0F0A_rev. B	Jan-23-2013	■ UpdatedSpec change

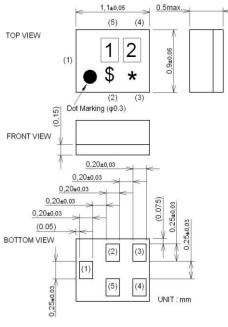
Operating temperature
 Storage temperature
 Input Power
 D.C. Volatage between the terminals
 : -30 to +85 deg.C
 : -40 to +85 deg.C
 : +15 dBm 2000 h
 : 3V (25+/-2 deg.C)

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: T 2: T

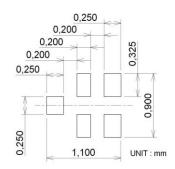
Terminal Number

(1):Unbalance Port

(3)(4) :Balance Port

Others: GND.

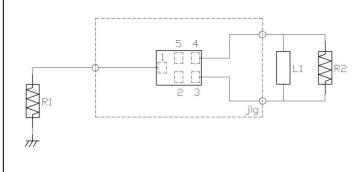
Land Pattern



Measurement Circuit (Top View)

R1:50 ohm

R2:100 ohm L1:82 nH(Ideal inductor)



Electrical Characteristic < Single Filter >



$SAFFB806MFA0F0A \quad (\ Band20\ /\ Balanced\ /\ 5pin\ /\ 1109\)$

Matching Impedance (nominal)

- :Unbalance Port : 50 ohm

- :Balance Port : 100 ohm // 82 nH(Ideal inductor)

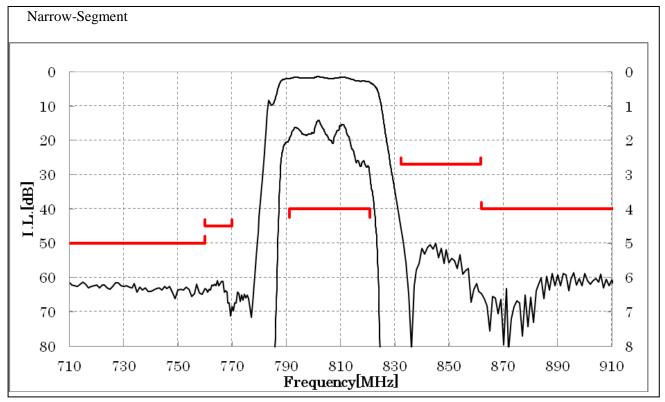
	Item	Item					stics eg.C)	Unit	Note
							max.	Cinc	11000
Center Frequency						806		MHz	
Insertion Loss	791.25 t	:0	820.75	MHz		2.8	4.0	dB	
	791.25 t		820.75			2.8	3.2	dB	+23 to +27deg.C
Ripple Deviation	791.25 t		820.75	MHz		1.4	3.2	dB	
	791.25 t		820.75			1.4	1.8	dB	+23 to +27deg.C
VSWR	791.25 t	0	820.75			2.2	2.6		
	791.25 t	:0	820.75	MHz		2.2	2.4		+23 to +27deg.C
Amplitude Balance	791.25 t		820.75		-1.0	0.2	1.0	deg.	
Phase Balance	791.25 t		820.75		170	182	190	dB	
Amplitude Balance	1. t		760.	MHz	50	59		dB	
	760. t		770.	MHz	45	59		dB	
	832.25 t	:0	861.75	MHz	27	41		dB	
	832.25 t	:0	861.75	MHz	35	41		dB	+23 to +27deg.C
	862. t	to 4	1000.	MHz	40	56		dB	-
	4000. t	to 6	5000.	MHz	30	46		dB	
	6000. t	to 8	3000.	MHz	20	37		dB	
	8000. t	to 12	2750.	MHz	20	33		dB	
			-						

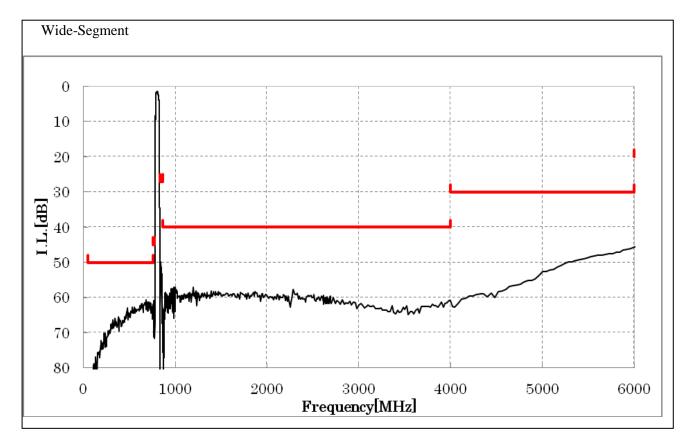
^{*} Typical value at 25±2deg.C



Electrical Characteristic

< Single Filter >

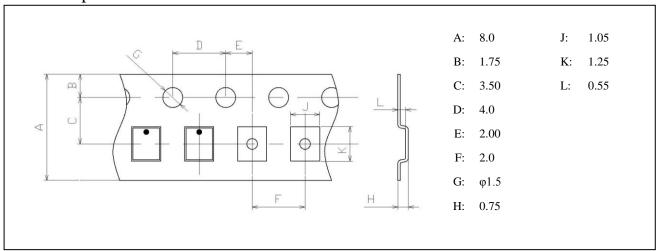




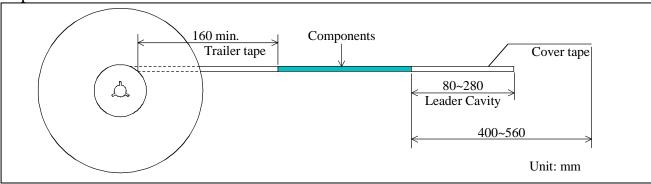


Dimensions of Tape & Reel unit: mm

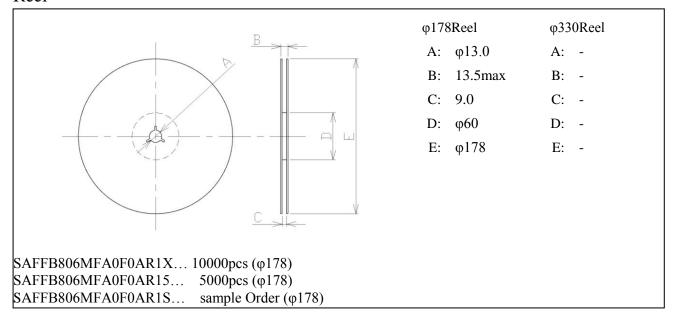
Carrier Tape







Reel





Marking Code

Tab1	e	A٠	Mont	th (Code
I au		4 A.	TATOIL	LII	Couc

2009	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013 2017	Α	В	С	D	Е	F	G	Н	J	K	L	М
2010	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2014 2018	N	Р	Ø	R	S	Т	U	٧	W	Х	Υ	Z
2011	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015 2019	а	b	0.1	d	е	f	g	h	j	k	l	m
2012	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2016 2020	n	p	G	r	1	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	Η	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	Х	Υ	Z	а	b	10	d	е	f	g

Important Notice (1/2)

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

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- Aerospace equipment
- Undersea equipment.
- Power plant control equipment Medical equipment.
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- 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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Moreover, you must comply with "foreign exchange and foreign trade law", the "U.S. export administration regulations", etc.

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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).

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

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