

# Datasheet of SAW Device

# **SAW Dual Filter**

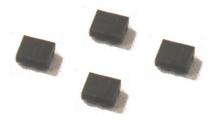
for Band38/40 / 1in2out Unbalanced / HL /1814

# Murata PN: SAWEN2G35PN0F0A



## Feature

- $\blacktriangleright$  Post PA filter for B38/40
- Diplexed solution
- No directional power handling port



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
SAWEN2G35PN0F0A_rev. A	May-17-2013	■ Initial Release

- Operating temperature
- :-30 to +85 deg.C :-40 to +85 deg.C

: 3V (25+/-2 deg.C)

: +28.5 dBm 20000 h 50 deg.C

- Storage temperature

- Input Power

- D.C. Volatage between the terminals

- Minimum Resistance betweem the terminals

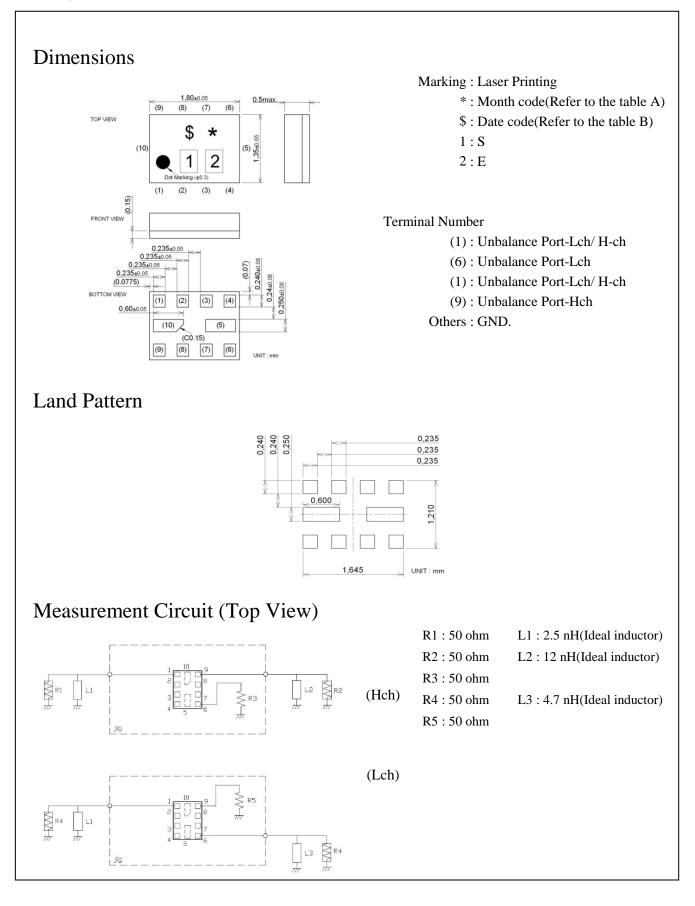
- RoHS compliance

- : 10M ohm
- : Yes

Package Dimensions & Recommended Land Pattern

unit: mm

muKata Innovator in Electronics





# SAWEN2G35PN0F0A( Band38/40 / 1in2out Unbalanced / HL / 1814 )Electrical Characteristic< Low Freq. Filter >

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Low	Low Freq. Filter							Unit	Note
Center Frequency						typ. 2350		MHz	
Insertion Loss	2300.	to	2400.	MHz		2.4	3.1	dB	
	2300.	to	2400.	MHz		2.4	2.9	dB	+23 to +27deg.C
Ripple Deviation	2300.	to	2400.	MHz		1.1	2.0	dB	
	2300.	to	2400.	MHz		1.1	1.7	dB	+23 to +27deg.C
VSWR	2300.	to	2400.	MHz		2.0	2.5		
	2300.	to	2400.	MHz		2.0	2.3		+23 to +27deg.C
Absolute Attenuation	10.	to	1574.	MHz	27	32		dB	
	1574.	to	1577.	MHz	27	31		dB	
	1577.	to	1680.	MHz	25	30		dB	
	1845.	to	1880.	MHz	23	26		dB	
	2110.	to	2170.	MHz	22	25		dB	
	2240.	to	2285.	MHz	2.0	4.5		dB	
	2415.	to	2420.	MHz	2.2	3.2		dB	
	2415.	to	2420.	MHz	2.5	3.2		dB	+23 to +27deg.C
	2420.	to	2460.	MHz	2.5	3.5		dB	
	2420.	to	2460.	MHz	2.8	3.5		dB	+23 to +27deg.C
	2460.	to	2485.	MHz	35	56		dB	
	2485.	to	2500.	MHz	40	50		dB	
	2500.	to	3000.	MHz	24	27		dB	
	4600.	to	4800.	MHz	28	33		dB	
	6900.	to	7200.	MHz	30	43		dB	

\* Typical value at 25±2deg.C



# SAWEN2G35PN0F0A( Band38/40 / 1in2out Unbalanced / HL / 1814 )Electrical Characteristic< High Freq. Filter >

					racteris				
Hig			(-30 to +85 deg.C)		Unit	Note			
	T				min.	typ.	max.	NUT	
Center Frequency	2570		2(20			2595	2.6	MHz	
Insertion Loss	2570.	to	2620.	MHz		2.0	2.6	dB	
	2570.	to	2620.	MHz		2.0	2.4	dB	+23 to +27deg.C
Ripple Deviation	2570.	to	2620.	MHz		0.7	1.5	dB	22. 27.1 0
	2570.	to	2620.	MHz		0.7	1.0	dB	+23 to +27deg.C
VSWR	2570.	to	2620.	MHz		1.5	1.9		22. 27.1 0
	2570.	to	2620.	MHz		1.5	1.8	115	+23 to +27deg.C
Absolute Attenuation	10.	to	1574.	MHz	33	37		dB	
	1559.	to	1606.	MHz	33	37	-	dB	
	1607.	to	2300.	MHz	33	35		dB	
	2400.	to	2500.	MHz	33	35		dB	
			2620.	MHz	1.0	2.0		dB	
			2620.	MHz	1.2	2.0		dB	+23 to +27deg.C
	2630.	to	2670.	MHz	1.4	2.3		dB	
	2630.	to	2670.	MHz	1.6	2.3		dB	+23 to +27deg.C
	2645.	to	2690.	MHz	2.3	3.5		dB	
	2645.	to	2690.	MHz	2.8	3.5		dB	+23 to +27deg.C
	5150.	to	5230.	MHz	28	32		dB	
	7725.	to	7845.	MHz	20	26		dB	

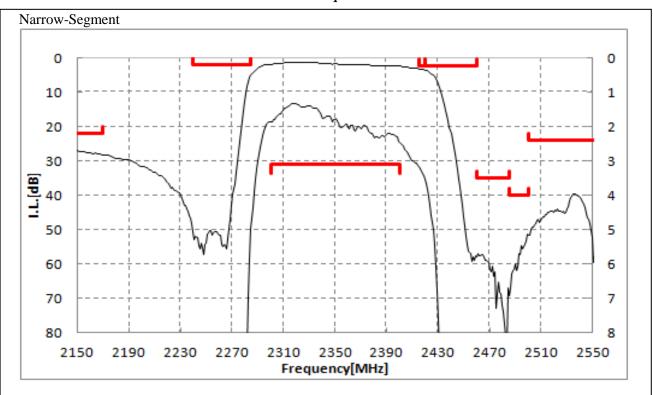
\* Typical value at 25±2deg.C



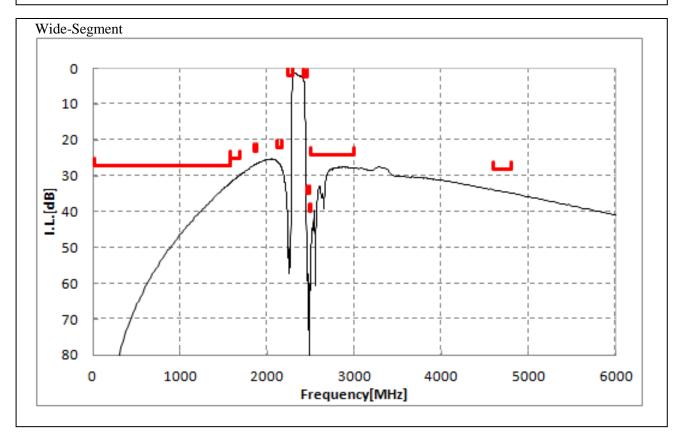
#### SAWEN2G35PN0F0A (Band38

(Band38/40 / 1in2out Unbalanced / HL / 1814)

### Electrical Characteristic





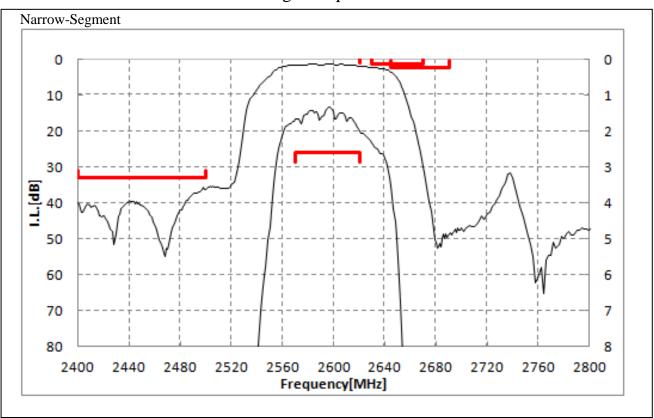




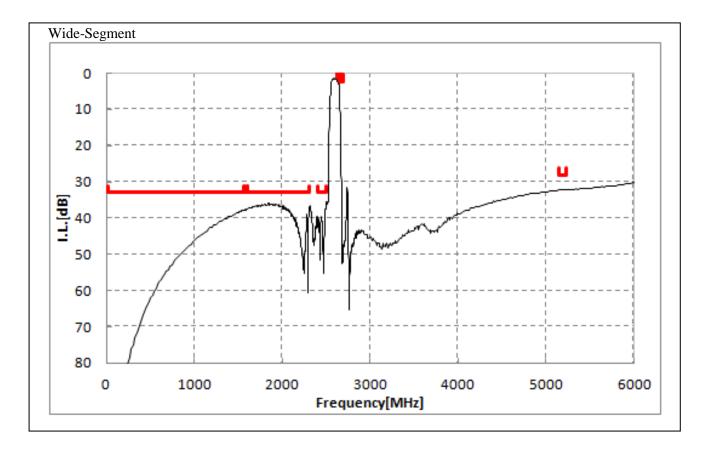
### SAWEN2G35PN0F0A

(Band38/40 / 1in2out Unbalanced / HL / 1814)

## Electrical Characteristic



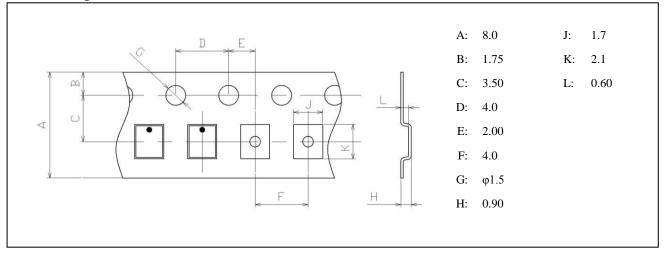
< High Freq. Filter >



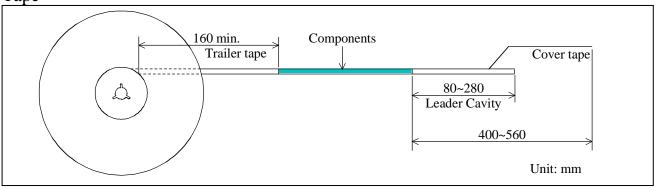


#### Dimensions of Tape & Reel unit: mm

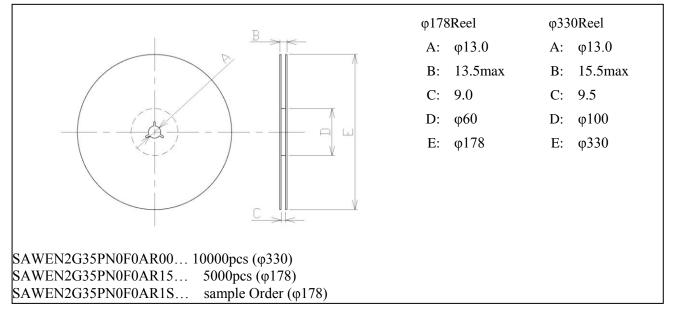
#### Carrier Tape



#### Tape



#### Reel





#### Marking Code

Table A	A • 1	Mont	h (	<sup>o</sup> de
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1 0	able A. Month Code												
Γ	2009	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	2013 2017	А	В	С	D	Е	F	G	н	J	К	L	М
Γ	2010	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	2014 2018	N	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
Γ	2011	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	2015 2019	а	b	οı	d	e	f	g	h	j	k	l	m
Γ	2012	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	2016 2020	n	p	G	r	4	t	u	V	ω	x	y	3

#### Table B: Date Code

date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	А	В	С	D	E	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	Х	Y	Z	а	b	C	d	е	f	g

#### Important Notice (1/2)

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.

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 in any application listed below which requires especially high reliability for the prevention of such defect as may directly cause damage to the third party's life, body or property. You acknowledge and agree that, if you use our products in such applications, we will not be responsible for any failure to meet such requirements.



#### Important Notice (2/2)

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 SUCH APPLICATIONS.

- 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.

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.

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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.

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

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•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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