

# Datasheet of SAW Device

# SAW Single Filter for DCS(CMCC) / Unbalanced / 5pin /1411

# Murata PN: SACEA1G81TA0F0A



## Feature

- Band34/39 Post-PA Filter
- ➢ High rejection at DCS(CMCC)
- $\triangleright$

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
SACEA1G81TA0F0A_rev. A	Feb-25-2013	■ Initial Release
SACEA1G81TA0F0A_rev. B	Apr-01-2013	

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

- Input Power

- D.C. Volatage between the terminals

- Minimum Resistance betweem the terminals

- RoHS compliance

: +30 dBm 10000 h 55 deg.C : 3V (25+/-2 deg.C)

: 10M ohm

: Yes

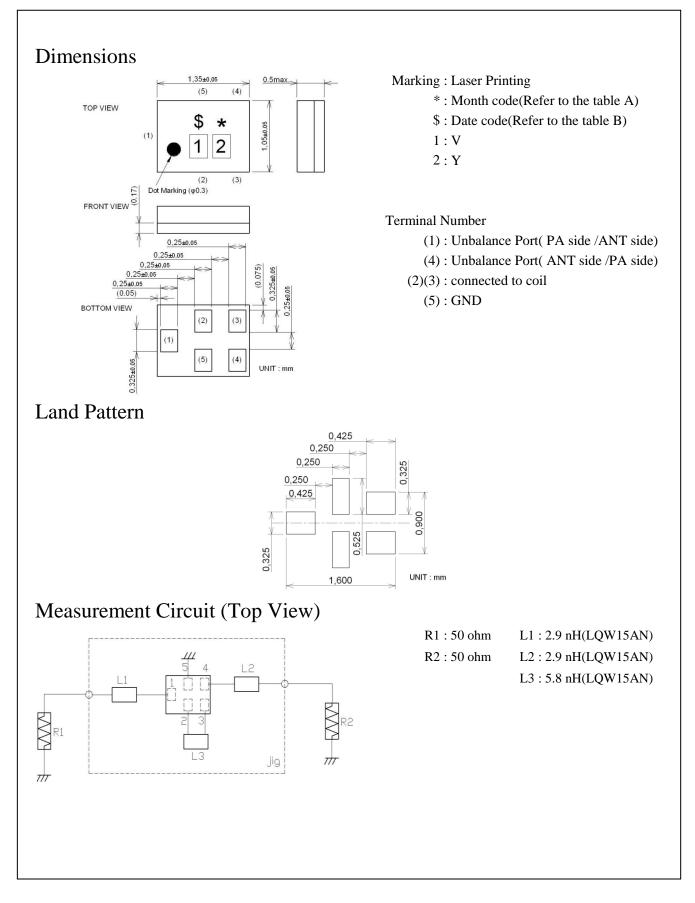
Innovator in Electronics

muKata

# SACEA1G81TA0F0A (DCS(CMCC) / Unbalanced / 5pin / 1411)

Package Dimensions & Recommended Land Pattern

unit: mm





## Electrical Characteristic < Single Filter >

#### Matching Impedance (nominal)

- : Unbalance Port

: 50 ohm // 2.9 nH(LQW15AN2N9)

- : Unbalance Port

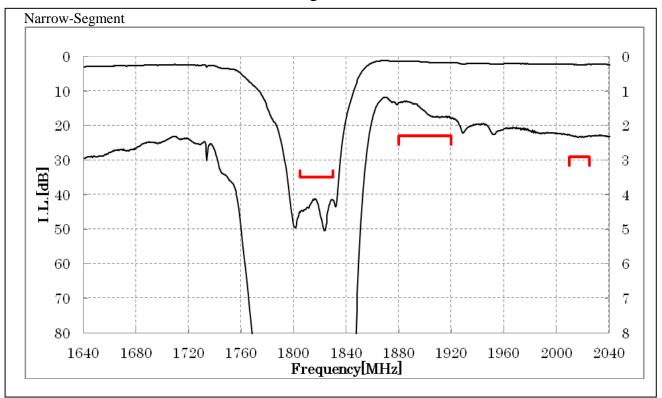
: 50 ohm // 2.9 nH(LQW15AN2N9)

	Item				Characteristics (-30 to +85 deg.C)			Unit	Note	
	Item				min.	typ.	max.	Unit	Note	
Center Frequency						1817.5		MHz	<u> </u>	
Insertion Loss	1880.	to	1920.	MHz		1.8	2.3	dB		
	1880.	to	1920.	MHz		1.8	2.1	dB	+23 to +27deg.C	
	2010.	to	2025.	MHz		2.4	2.9	dB		
	2010.	to	2025.	MHz		2.4	2.7	dB	+23 to +27deg.C	
Ripple Deviation	1880.	to	1920.	MHz		0.5	1.0	dB		
	2010.	to	2025.	MHz		0.2	0.5	dB		
VSWR	1880.	to	1920.	MHz		1.6	2.3			
	1880.	to	1920.	MHz		1.6	2.2		+23 to +27deg.C	
	2010.	to	2025.	MHz		1.3	2.3			
	2010.	to	2025.	MHz		1.3	2.2		+23 to +27deg.C	
Absolute Attenuation	10.	to	1559.	MHz	0.5	3.5		dB		
	1559.	to	1606.	MHz	0.5	3.1		dB		
	1805.	to	1830.	MHz	35	40		dB		
	1805.	to	1830.	MHz	37	40		dB	+23 to +27deg.C	
	3760.	to	4050.	MHz	15	19		dB		
	5640.	to	6075.	MHz	20	23		dB		
									* Turnical value at 25 / 2dec C	

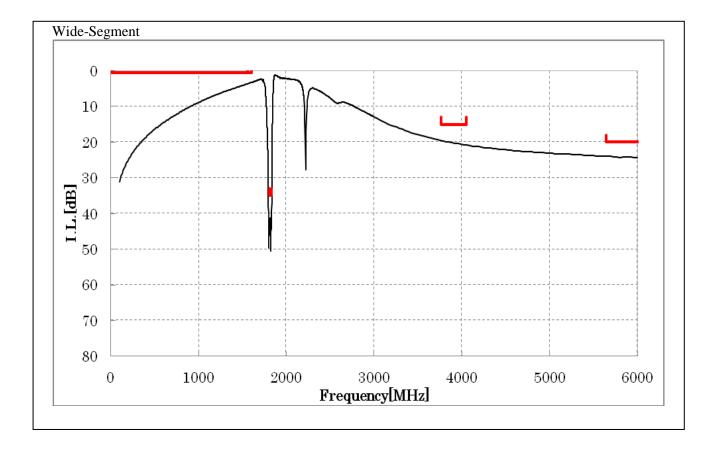
\* Typical value at 25±2deg.C



## Electrical Characteristic







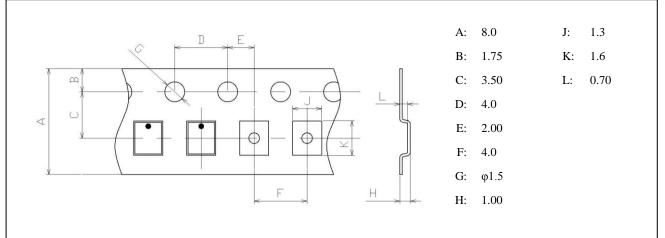


# $SACEA1G81TA0F0A \quad (\ DCS(CMCC) \ / \ Unbalanced \ / \ 5pin \ / \ 1411 \ )$

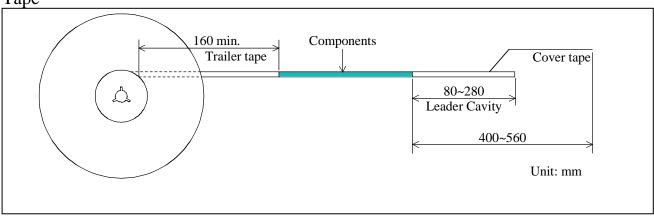
#### Dimensions of Tape & Reel

unit: mm

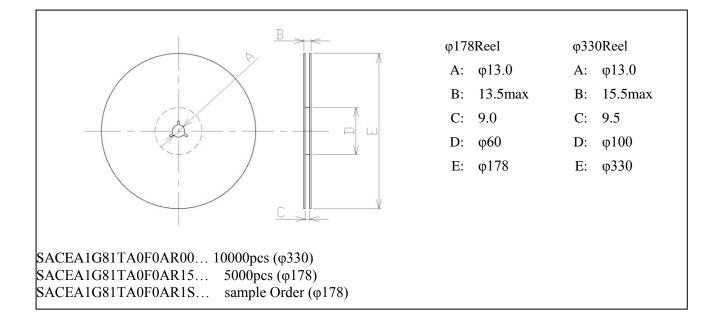
#### Carrier Tape



Tape









#### Marking Code

#### Table A: Month Code

able A. Woltan Code													
20	009	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	013 017	Α	В	С	D	Е	F	G	н	J	К	L	М
20	010	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	014 018	N	Ρ	Q	R	s	Т	U	V	W	Х	Y	Z
20	011	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	015 019	а	b	01	d	e	f	g	h	j	k	l	m
20	012	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
	016 020	n	p	G	r	4	t	u	V	ω	x	y	z

#### 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.

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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.

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- 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.

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•deviation or lapse in function of engineering sample,

•improper use of engineering samples.

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