



Data Sheet of SAW Components

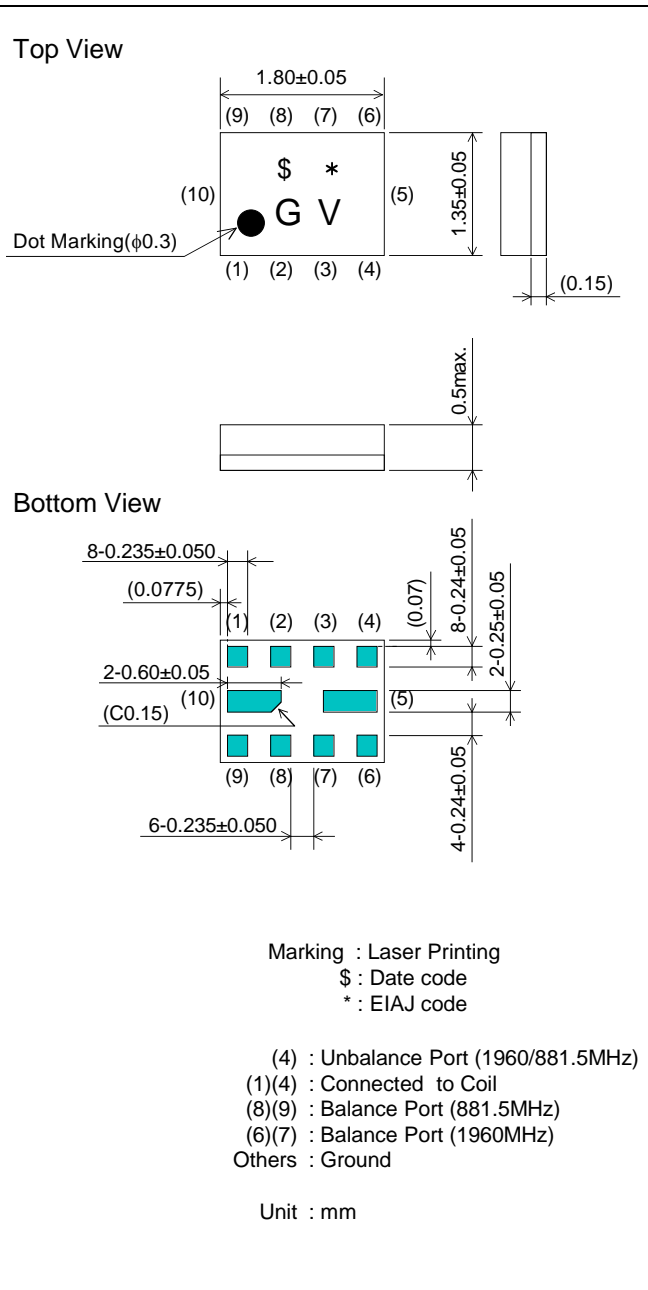


Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.
Please also read caution at the end of this document.

SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00 (fc=881.5MHz)

Package Dimensions



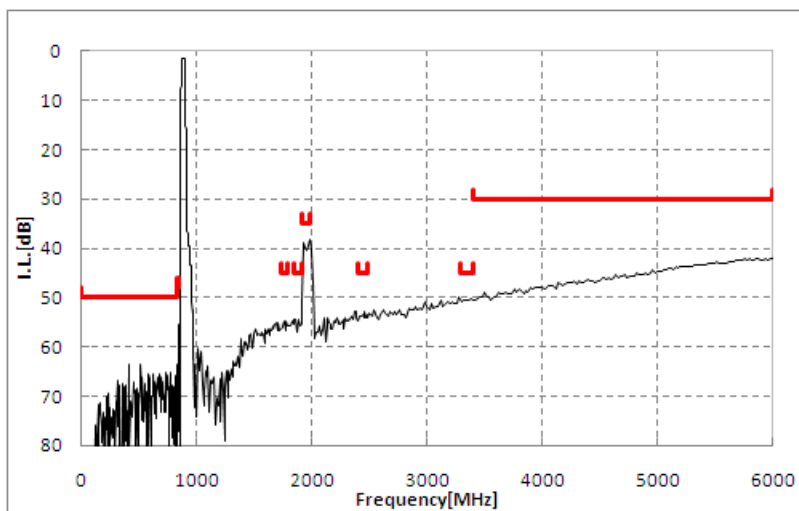
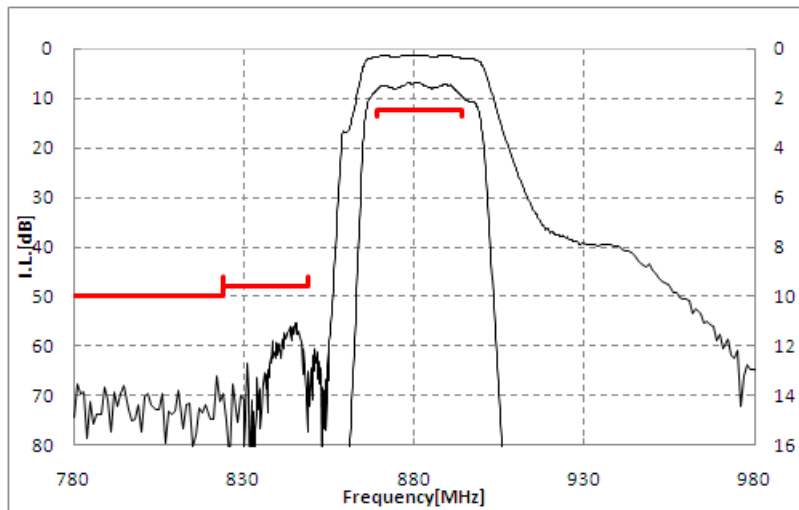
Specification

Item	Specification		
	-30 to +85°C	25±2 °C	typ.
Nominal Center Frequency(fc)	881.5 MHz		
Insertion Loss (869 to 894 MHz)	2.5 dB max.	2.4 dB max.	1.9 dB
Absolute Attenuation			
1) 0.1 to 824 MHz	50 dB min.	50 dB min.	63 dB
2) 824 to 849 MHz	48 dB min.	48 dB min.	55 dB
3) 1738 to 1788 MHz	45 dB min.	45 dB min.	54 dB
4) 1850 to 1910 MHz	45 dB min.	45 dB min.	54 dB
5) 1920 to 2000 MHz	35 dB min.	35 dB min.	38 dB
6) 2400 to 2484 MHz	45 dB min.	45 dB min.	53 dB
7) 3296 to 3396 MHz	45 dB min.	45 dB min.	50 dB
8) 3396 to 6000 MHz	30 dB min.	30 dB min.	42 dB
Ripple Deviation (869 to 894 MHz)	1.2 dB max.	1.1 dB max.	0.6 dB
VSWR (869 to 894 MHz)	2.0 max.	2.0 max.	1.8
Amplitude Balance (869 to 894 MHz)	±1.0 dB max.	±1.0 dB max.	+0.2dB
Phase Balance (869 to 894 MHz)	180±5 deg. max.	180±5 deg. max.	180.0+1.5deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	100Ω//82nH		
Input Signal Level	31.6mW(+15dBm) , 2000 hours		

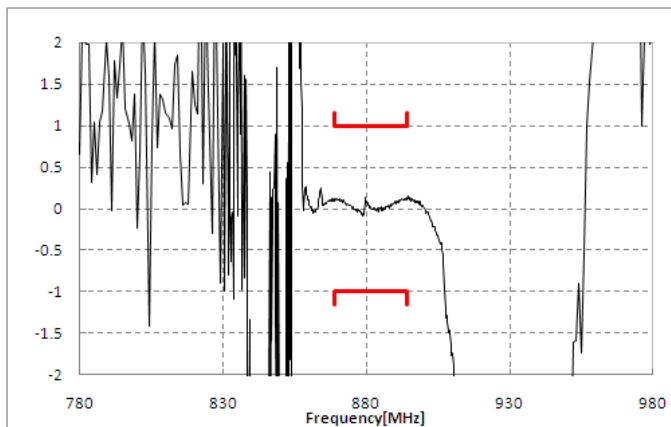
SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00 (fc=881.5MHz)

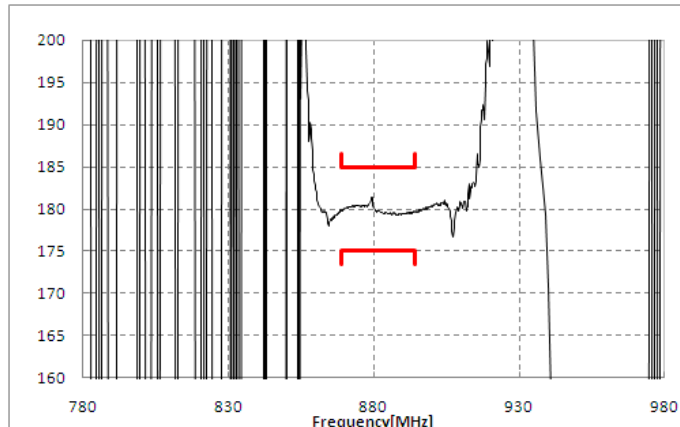
Frequency Performance



Amplitude balance



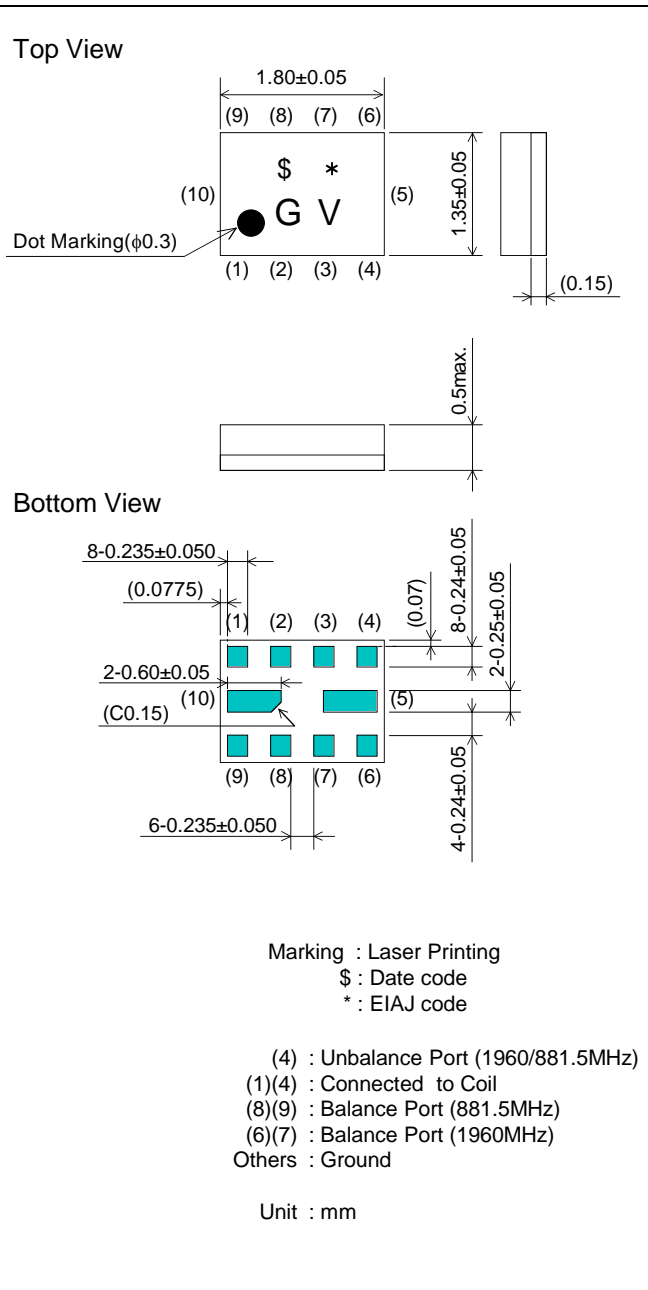
Phase balance



SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00 (fc=1960MHz)

Package Dimensions



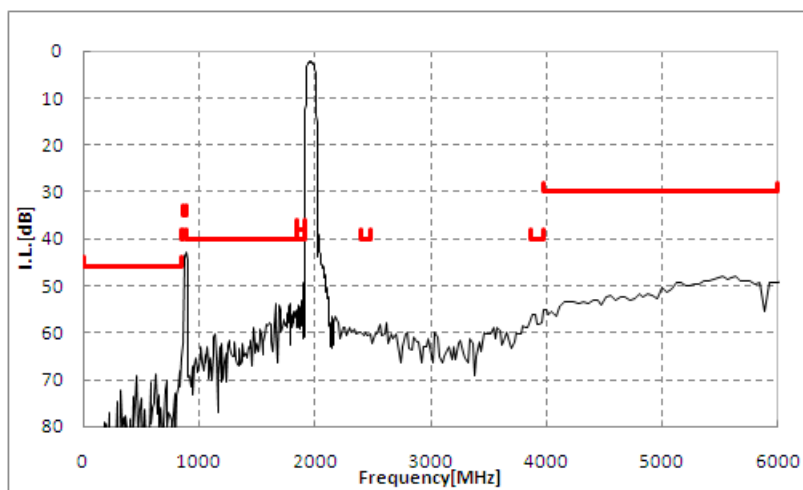
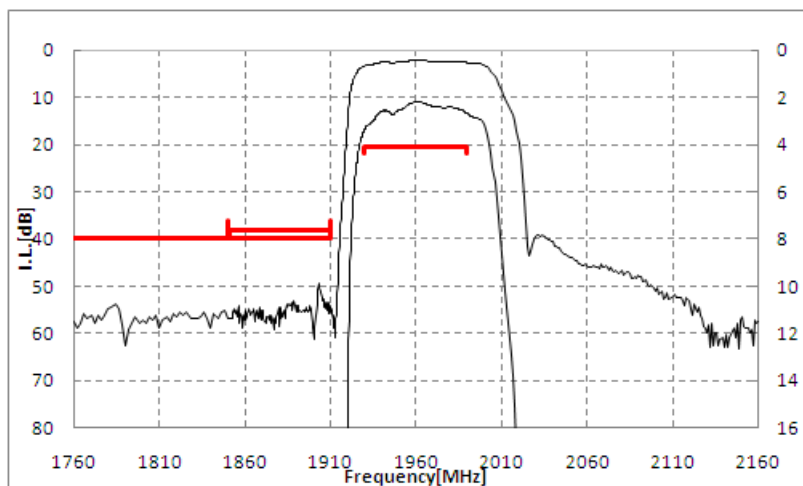
Specification

Item	Specification		
	-30 to +85°C	25±2 °C	typ.
Nominal Center Frequency(fc)	1960 MHz		
Insertion Loss (1930 to 1990 MHz) (1930.48 to 1989.52 MHz)	4.1 dB max. 4 dB max.	3.7 dB max. 3.6 dB max.	3.3 dB 3.3 dB
Absolute Attenuation			
1) 0.1 to 849 MHz	46 dB min.	46 dB min.	67 dB
2) 849 to 869 MHz	40 dB min.	40 dB min.	44 dB
3) 869 to 894 MHz	35 dB min.	35 dB min.	43 dB
4) 894 to 1850 MHz	40 dB min.	40 dB min.	43 dB
5) 1850 to 1910 MHz	38 dB min.	42 dB min.	50 dB
6) 1850.48 to 1909.52 MHz	40 dB min.	42 dB min.	50 dB
7) 2400 to 2484 MHz	40 dB min.	40 dB min.	59 dB
8) 3860 to 3980 MHz	40 dB min.	40 dB min.	56 dB
9) 3980 to 6000 MHz	30 dB min.	30 dB min.	48 dB
Ripple Deviation (1930 to 1990 MHz)	2.0 dB max.	1.6 dB max.	1.1 dB
VSWR (1930 to 1990 MHz)	2.0 max.	2.0 max.	1.8
Amplitude Balance (1930 to 1990 MHz)	±1.0 dB max.	±1.0 dB max.	+0.3 dB
Phase Balance (1930 to 1990 MHz)	180±10 deg. max.	180±10 deg. max.	180.0+3.8deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	100Ω// 26nH		
Input Signal Level	20mW(+13dBm), 2000 hours		

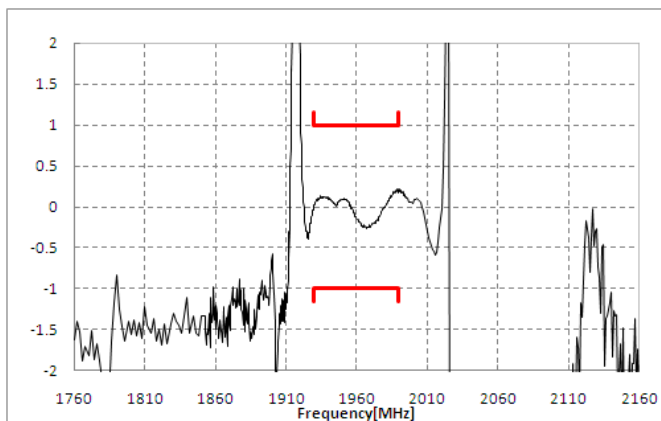
SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00 (fc=1960MHz)

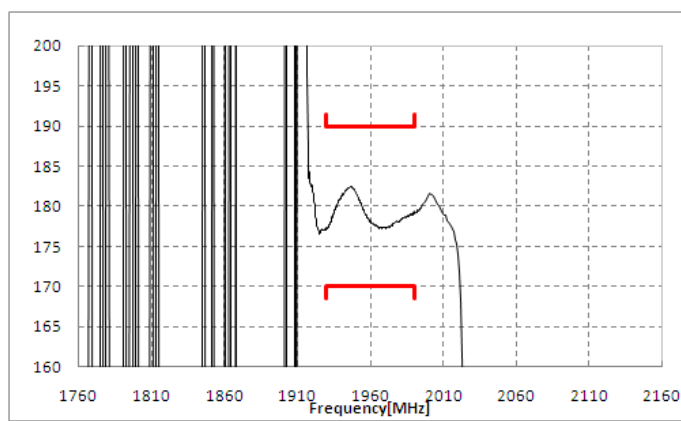
Frequency Performance



Amplitude balance



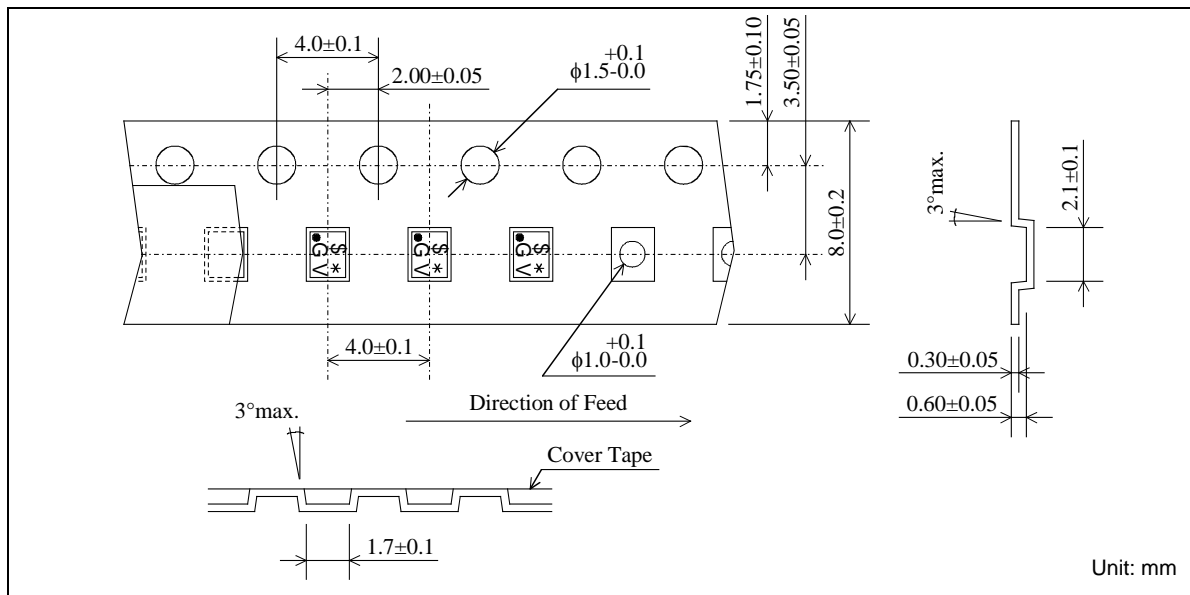
Phase balance



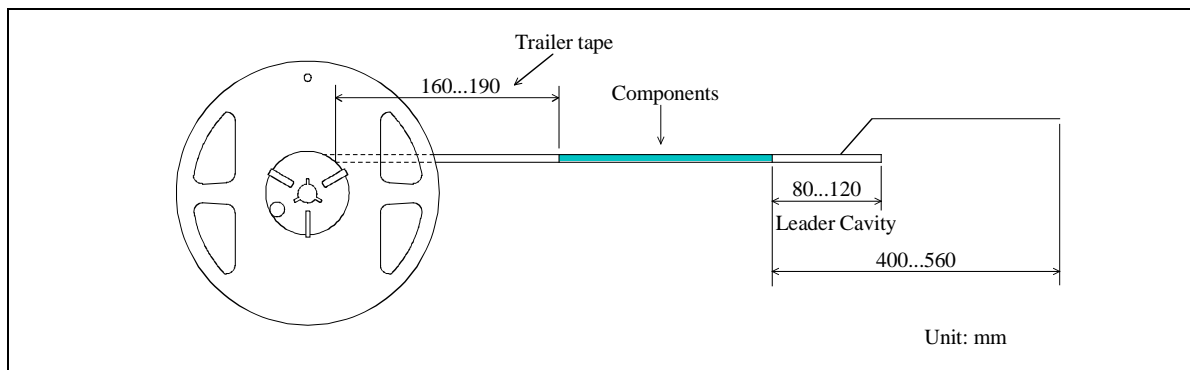
SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00

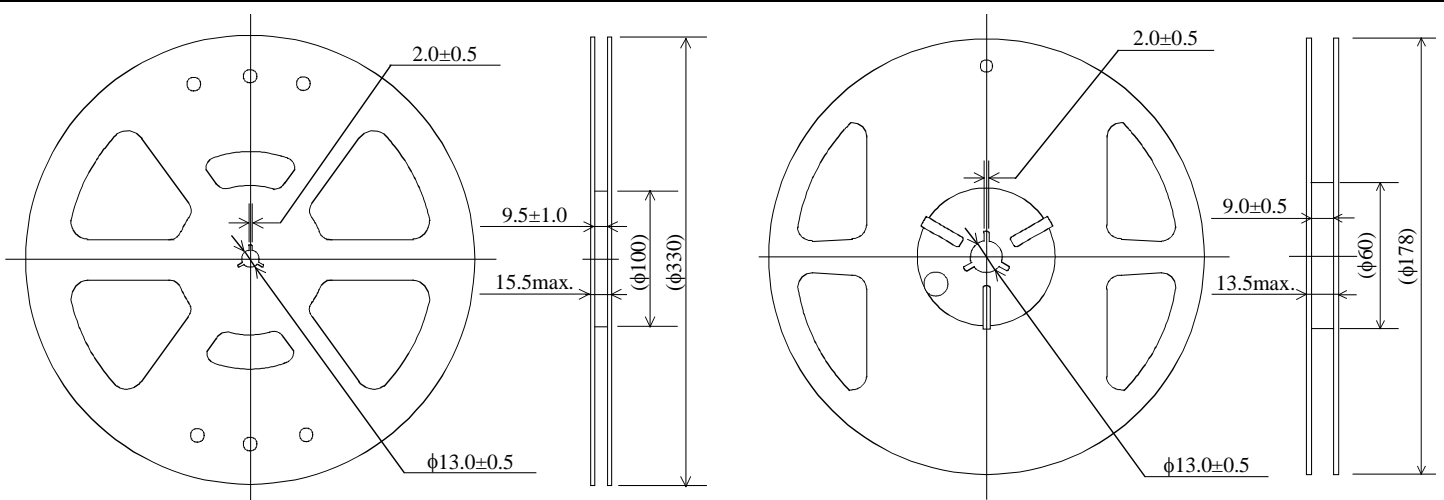
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAWEN881MCE0F00R00 ... 10000pcs/reel

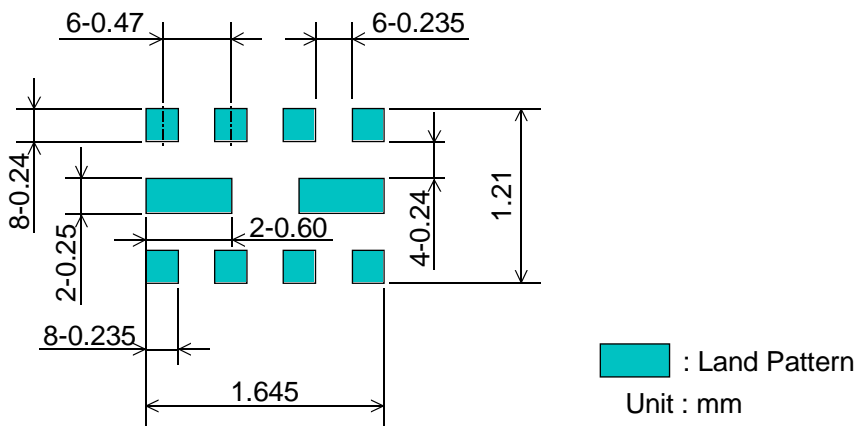
SAWEN881MCE0F00R15 ... 5000pcs/reel

SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00

Recommended Land Pattern

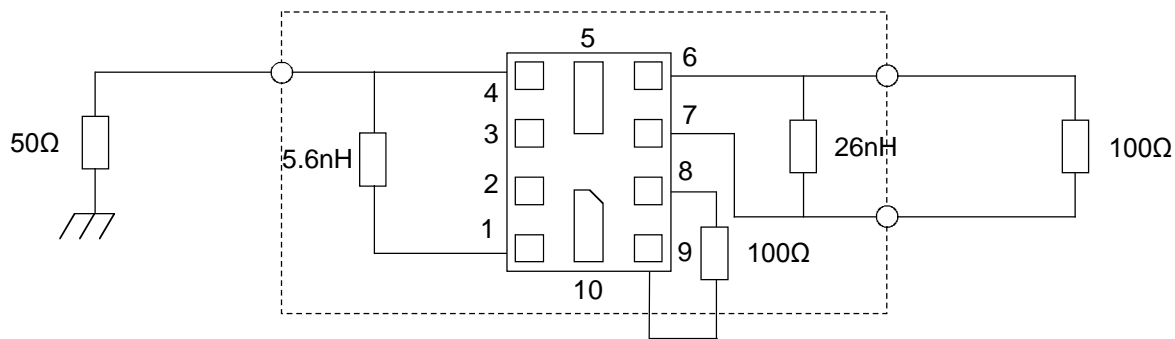
Top View



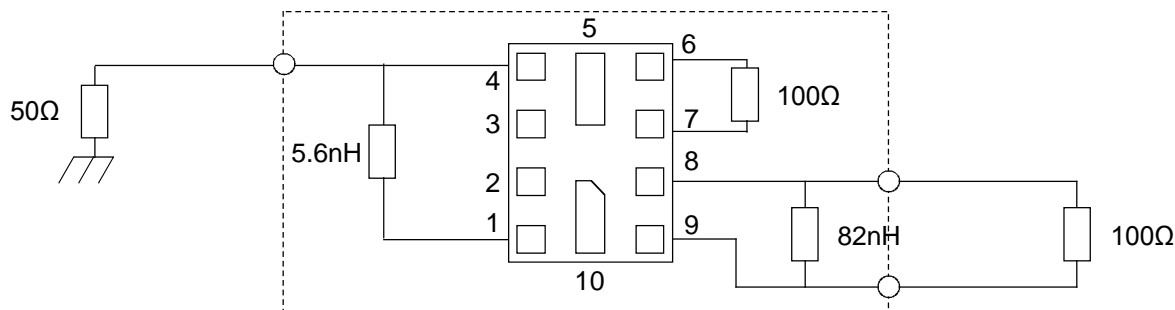
Test Circuit

Bottom View

1960 MHz



881.5 MHz



SAW FILTER FOR Cell800/PCS Diversity Rx Diplex SAW

Murata part number : SAWEN881MCE0F00

■ 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.

■ Marking code

Table 1 ★ : EIAJ Code

This rule of code is applied repeatedly every four year.

2009	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2017												
2010	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2018												
2011	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	a	b	c̄	d	e	f	g	h	j	k	l	m
2019												
2012	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2016	n	p	q	r	s	t	u	v	w	x	y	z
2020												

Table 2 \$: Date Code

date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
code	A	B	C	D	E	F	G	H	J	K	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	M	N	P	Q	R	S	T	U	V	
date	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	X	Y	Z	a	b	c̄	d	e	f	g