



Data Sheet of SAW Components



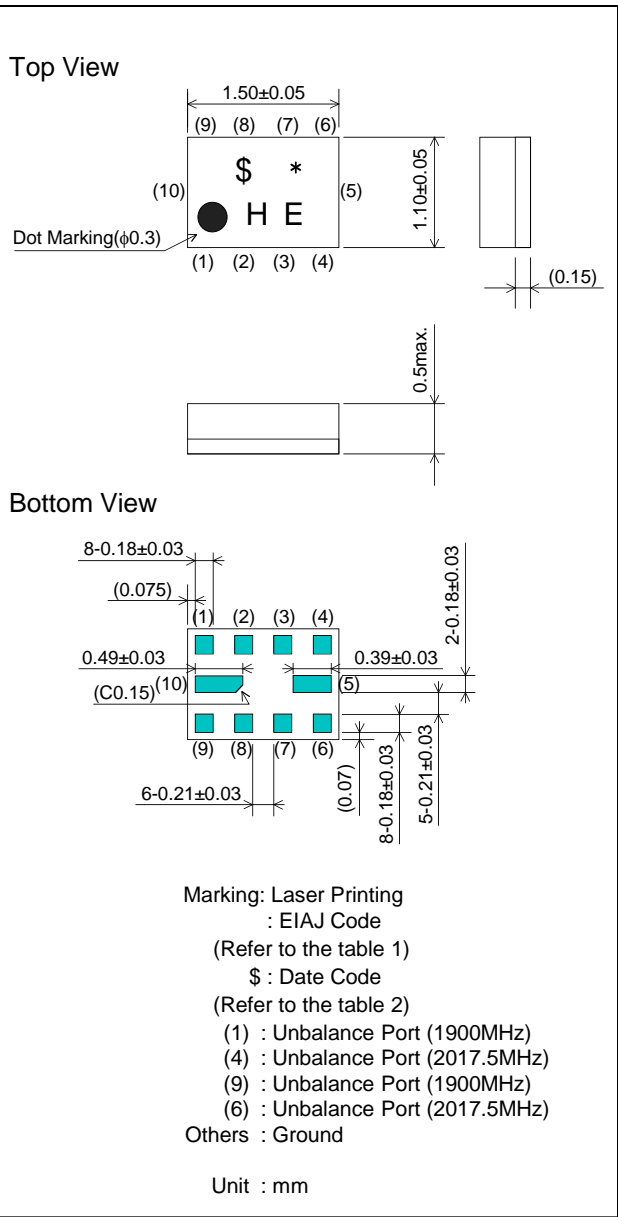
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.
Please also read caution at the end of this document.

SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A (fc=1900MHz)

■ Package Dimensions

■ Specification

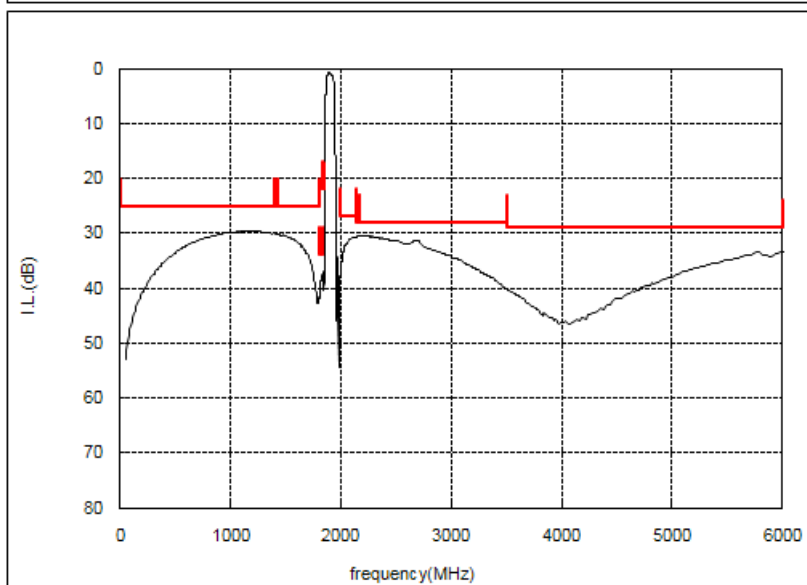
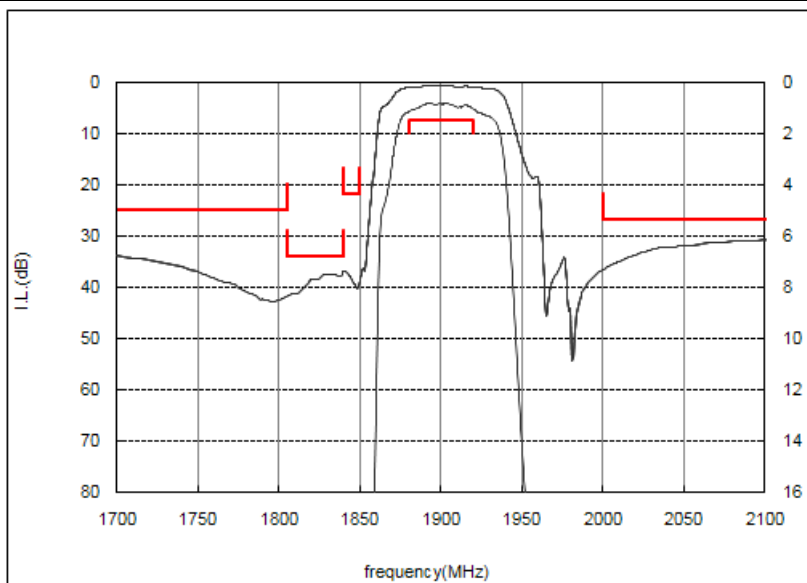


Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1900MHz		
Insertion Loss (1880 to 1920MHz)	1.5 dB max.	1.3 dB max.	1.2 dB
Absolute Attenuation			
1) 0.1 to 1395 MHz	25 dB min.	25 dB min.	29 dB
2) 1395 to 1435 MHz	25 dB min.	25 dB min.	29 dB
3) 1435 to 1805 MHz	25 dB min.	25 dB min.	29 dB
4) 1805 to 1840 MHz	34 dB min.	34 dB min.	39 dB
5) 1840 to 1850 MHz	22 dB min.	34 dB min.	38 dB
6) 2000 to 2135 MHz	27 dB min.	27 dB min.	31 dB
7) 2135 to 2175 MHz	28 dB min.	28 dB min.	31 dB
8) 2175 to 3500 MHz	28 dB min.	28 dB min.	31 dB
9) 3500 to 6000 MHz	29 dB min.	29 dB min.	33 dB
Ripple Deviation (1880 to 1920MHz)	0.8 dB max.	0.5 dB max.	0.3 dB
VSWR (1880 to 1920MHz)	1.7 max.	1.5 max.	1.2
Unbalance Port Matching Impedance (nominal)	50Ω		
Input Signal Level	20mW (+13dBm), 2000 hours		

SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A (fc=1900MHz)

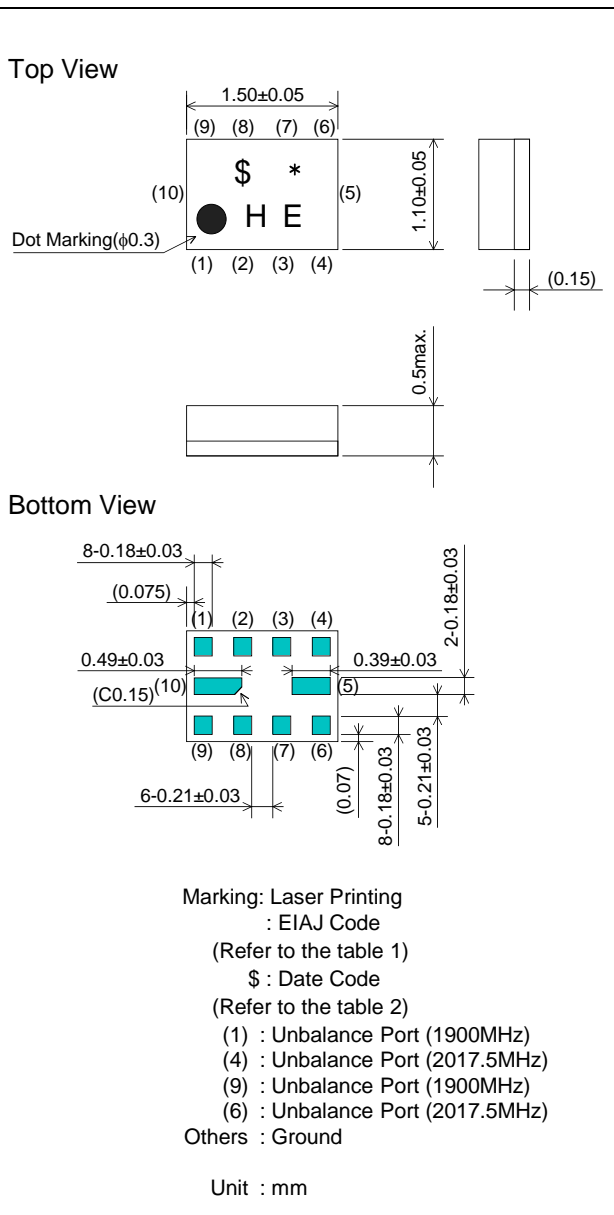
Frequency Performance



SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A (fc=2017.5MHz)

Package Dimensions



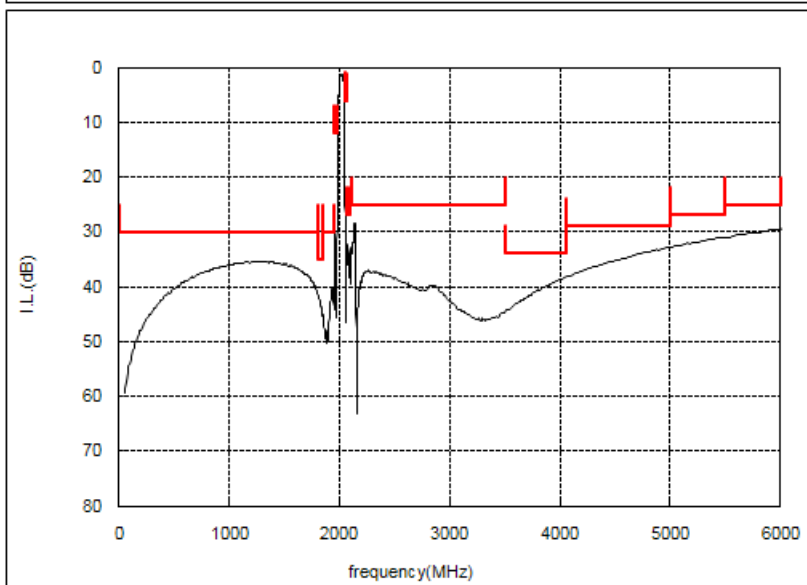
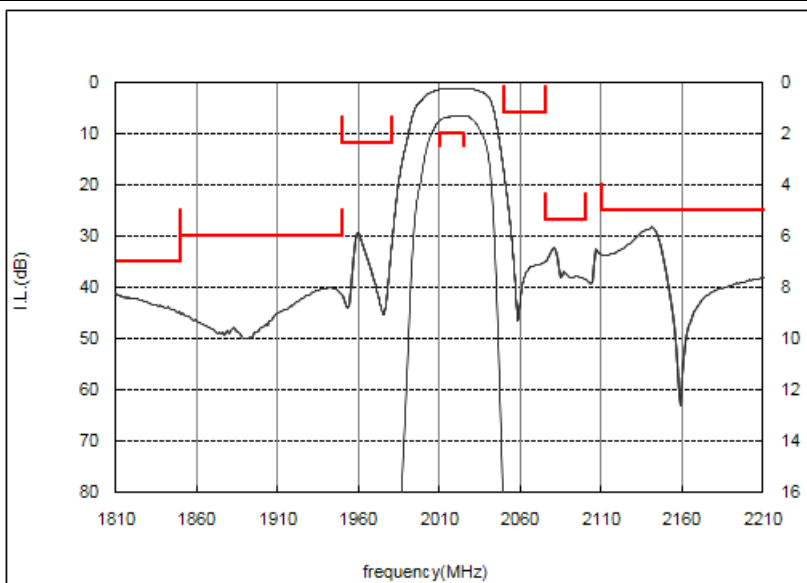
Target Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	2017.5 MHz		
Insertion Loss (2010 to 2025MHz)	2.0 dB max.	1.8 dB max.	1.4 dB
Absolute Attenuation			
1) 0.1 to 1805 MHz	30 dB min.	30 dB min.	35 dB
2) 1805 to 1850 MHz	35 dB min.	35 dB min.	41 dB
3) 1850 to 1950 MHz	30 dB min.	35 dB min.	40 dB
4) 1950 to 1980 MHz	12 dB min.	17 dB min.	23 dB
5) 2050 to 2075 MHz	6 dB min.	12 dB min.	23 dB
6) 2075 to 2100 MHz	27 dB min.	27 dB min.	32 dB
7) 2110 to 3500 MHz	25 dB min.	25 dB min.	29 dB
8) 3500 to 4060 MHz	34 dB min.	34 dB min.	38 dB
9) 4060 to 5000 MHz	29 dB min.	29 dB min.	32 dB
10) 5000 to 5500 MHz	27 dB min.	27 dB min.	31 dB
11) 5500 to 6000 MHz	25 dB min.	25 dB min.	30 dB
Ripple Deviation (2010 to 2025MHz)	0.8 dB max.	0.5 dB max.	0.1 dB
VSWR (2010 to 2025MHz)	1.7 max.	1.6 max.	1.2
Unbalance Port Matching Impedance (nominal)	50Ω		
Input Signal Level	20mW (+13dBm), 2000 hours		

SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A (fc=2017.5MHz)

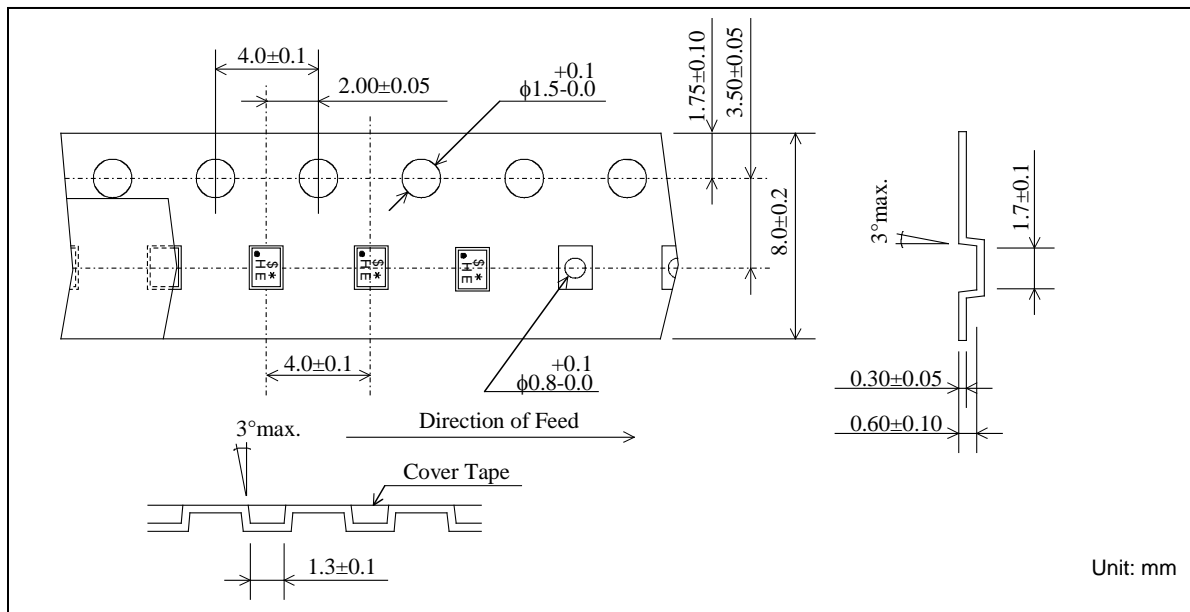
Frequency Performance



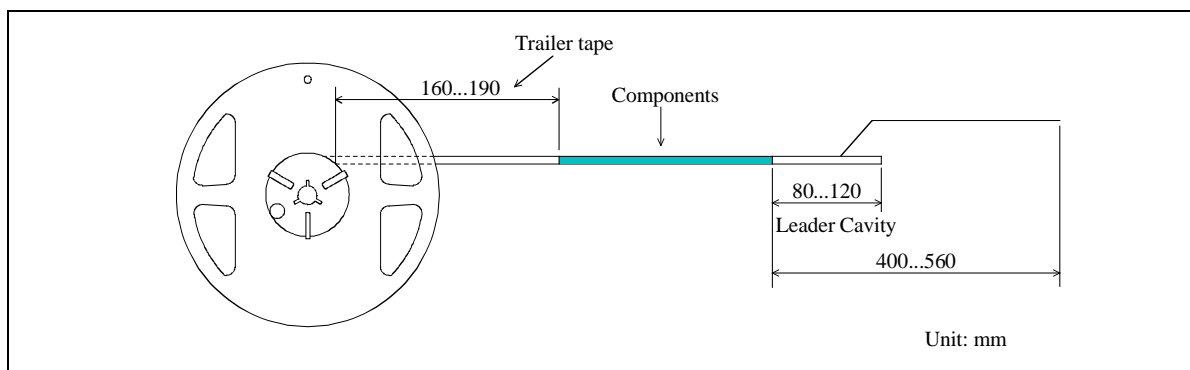
SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A

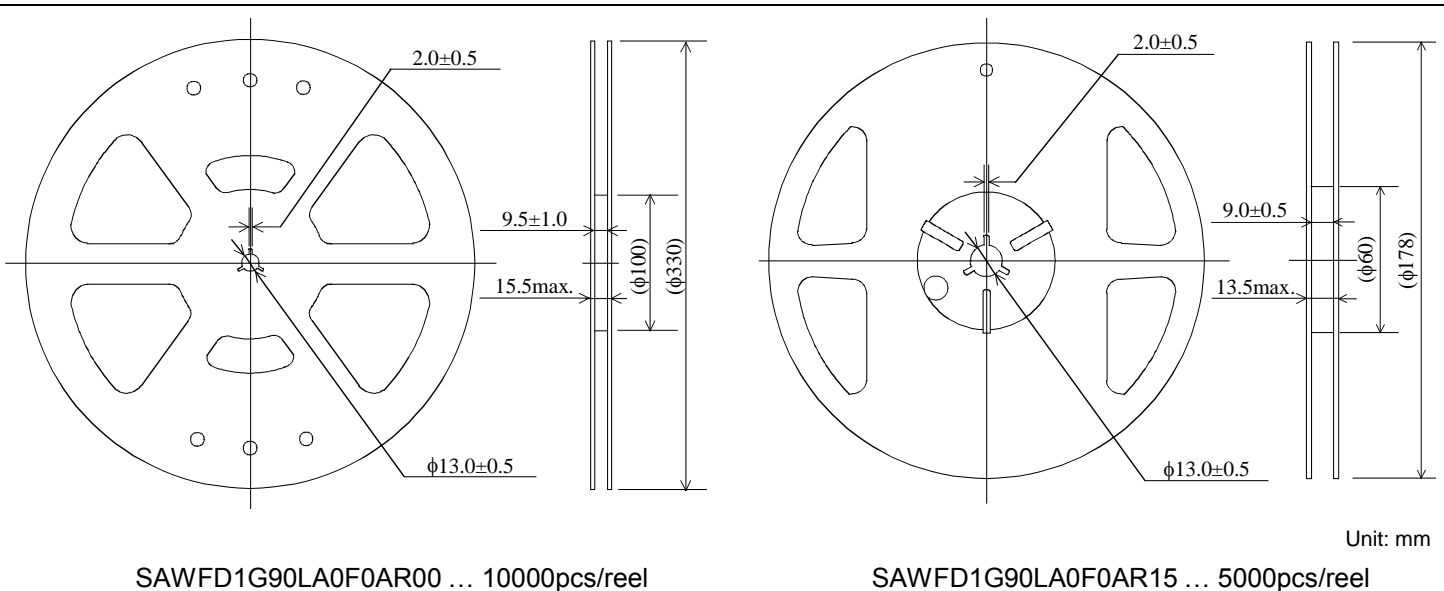
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAWFD1G90LA0F0AR00 ... 10000pcs/reel

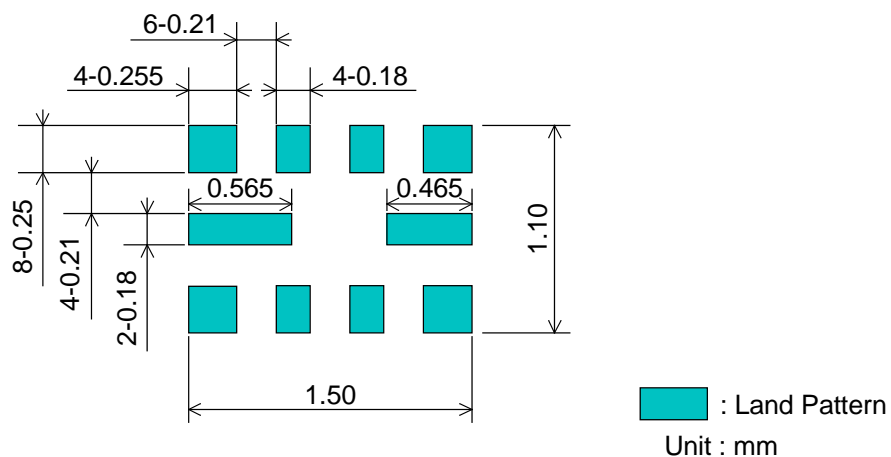
SAWFD1G90LA0F0AR15 ... 5000pcs/reel

SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A

Recommended Land Pattern

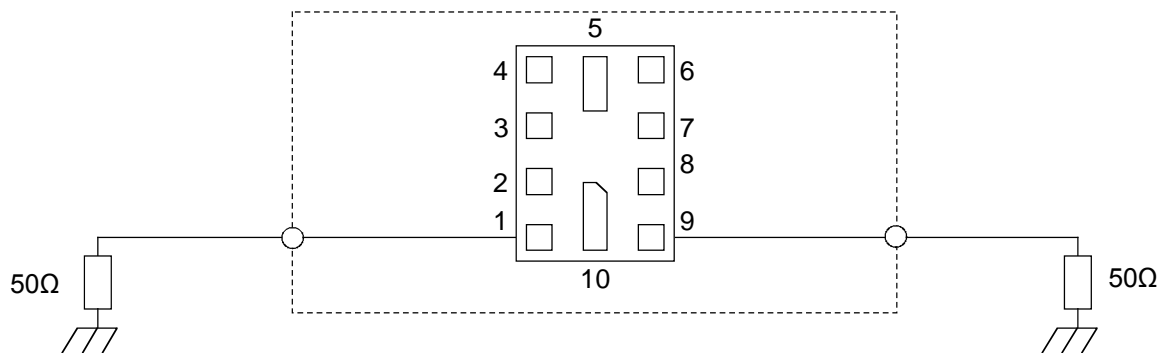
Top View



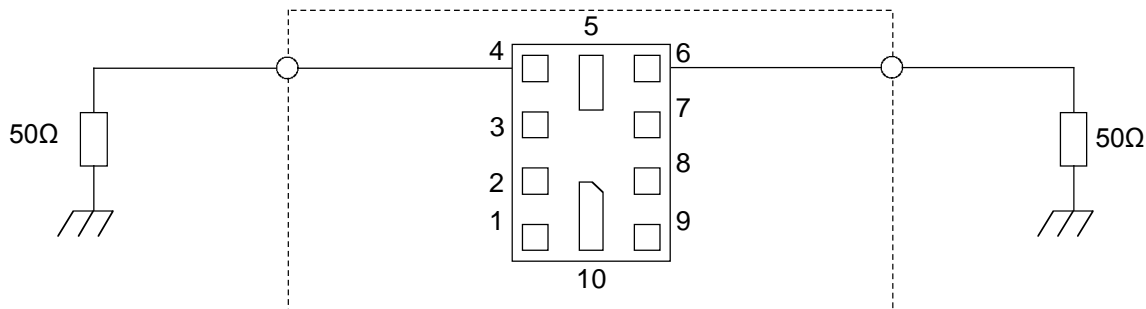
Test Circuit

Bottom View

1900MHz



2017.5MHz



SAW FILTER FOR TD-SCDMA

Murata part number :SAWFD1G90LA0F0A

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

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	