



# Data Sheet of SAW Components



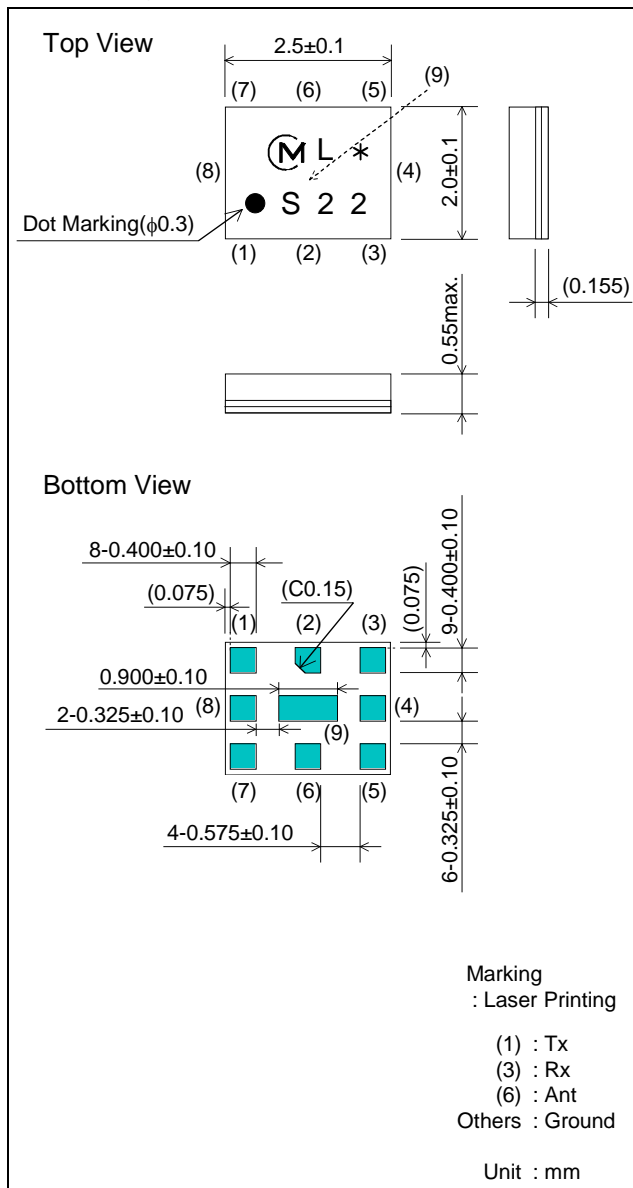
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [Tx→ANT]

## Package Dimensions



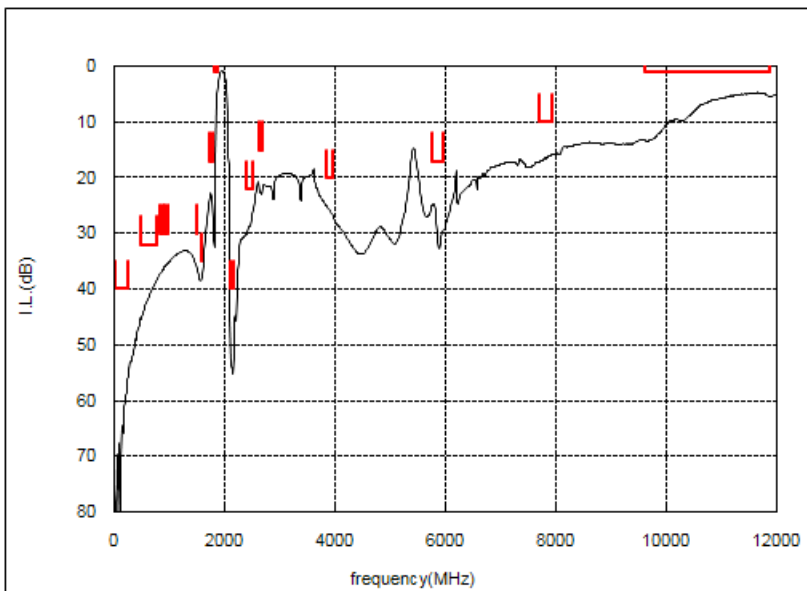
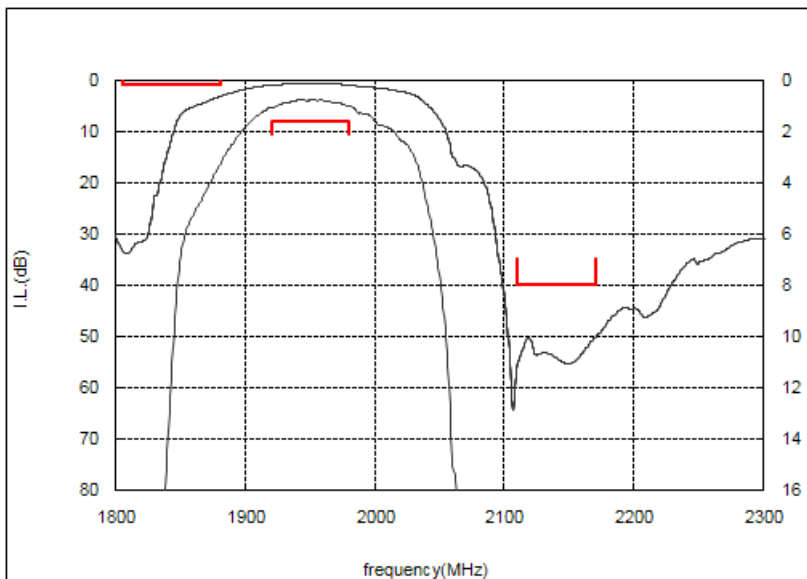
## Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1950MHz		
Insertion Loss (1920 to 1980MHz)	1.6dB max.	1.5dB max.	1.1 dB
Absolute Attenuation			
1) 0.1 to 240 MHz	40 dB min.	40 dB min.	57 dB
2) 470 to 770 MHz	32 dB min.	32 dB min.	39 dB
3) 810 to 895 MHz	30 dB min.	30 dB min.	36 dB
4) 921 to 960 MHz	30 dB min.	30 dB min.	36 dB
5) 1475.9 to 1500.9 MHz	30 dB min.	30 dB min.	35 dB
6) 1570 to 1580 MHz	35 dB min.	35 dB min.	39 dB
7) 1730 to 1790 MHz	17 dB min.	17 dB min.	24 dB
8) 1805 to 1880 MHz	1 dB min.	1 dB min.	3 dB
9) 2110 to 2170 MHz	40 dB min.	40 dB min.	50 dB
10) 2400 to 2500 MHz	22 dB min.	22 dB min.	27 dB
11) 2620 to 2690 MHz	15 dB min.	15 dB min.	22 dB
12) 3840 to 3960 MHz	20 dB min.	20 dB min.	24 dB
13) 5760 to 5940 MHz	17 dB min.	17 dB min.	23 dB
14) 7680 to 7920 MHz	10 dB min.	10 dB min.	17 dB
15) 9600 to 11880 MHz	1 dB min.	1 dB min.	5 dB
Ripple Deviation (1920 to 1980MHz)	0.8 dB max.	0.7 dB max.	0.4 dB
Ripple Deviation any 3.84MHz (1920 to 1980MHz)	0.5 dB max.	0.4 dB max.	0.1 dB
VSWR			
1) 1920 to 1980MHz (ANT)	2.0 max.	2.0 max.	1.4
2) 1920 to 1980MHz (Tx)	2.0 max.	2.0 max.	1.4
ANT Port Matching Impedance(nominal)	50Ω//3.6nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	50Ω		
Input Signal Level	0.8W, ,50000 hours(55°C)		

# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [Tx→ANT]

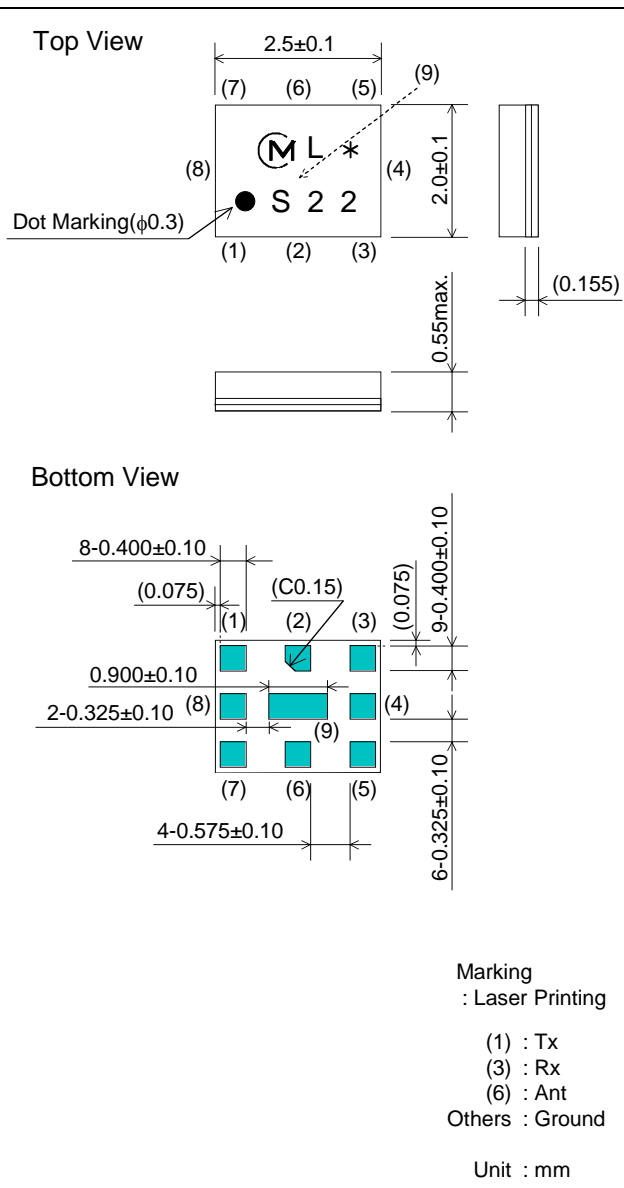
## Frequency Performance



# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [ANT→Rx]

## Package Dimensions



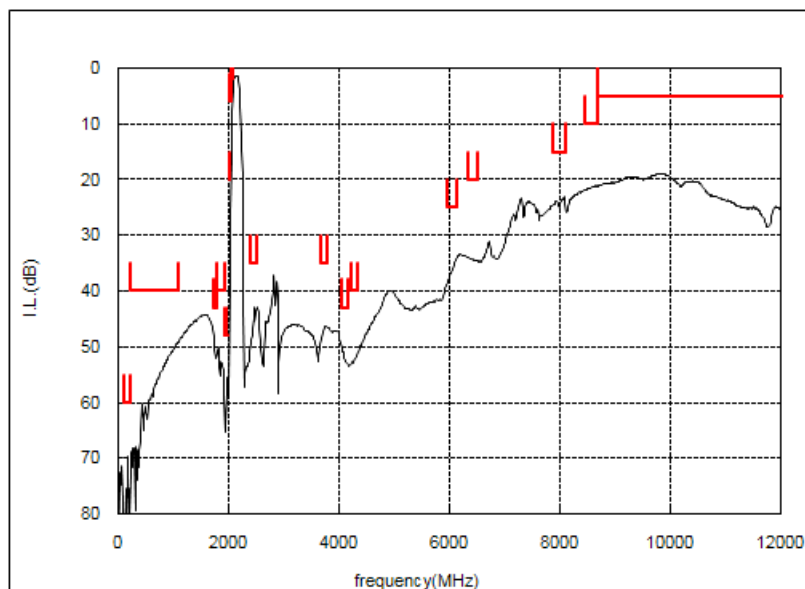
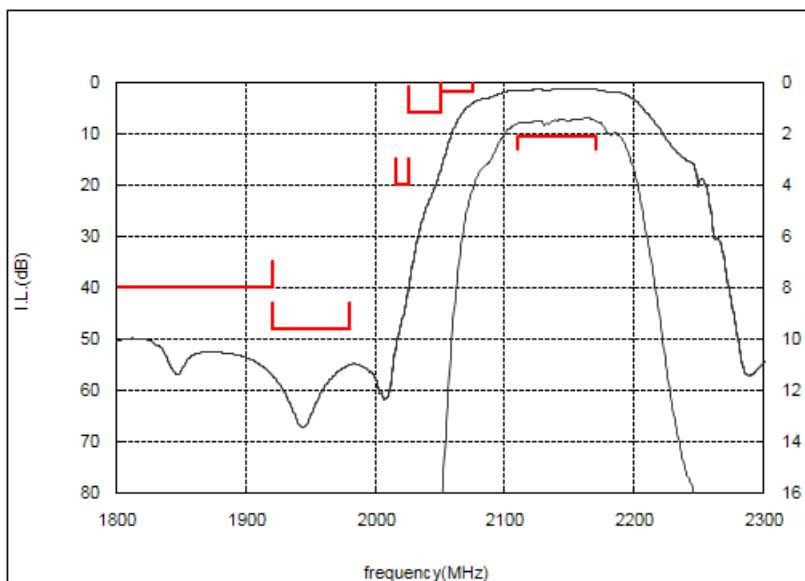
## Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	2140MHz		
Insertion Loss (2110 to 2170MHz)	2.1dB max.	2.0dB max.	1.6 dB
Absolute Attenuation			
1) 100 to 220 MHz	60 dB min.	60 dB min.	75 dB
2) 220 to 1085 MHz	40 dB min.	40 dB min.	48 dB
3) 1730 to 1790 MHz	43 dB min.	43 dB min.	46 dB
4) 1790 to 1920 MHz	40 dB min.	40 dB min.	48 dB
5) 1920 to 1980 MHz	48 dB min.	48 dB min.	55 dB
6) 2015 to 2025 MHz	20 dB min.	20 dB min.	41 dB
7) 2025 to 2050 MHz	6 dB min.	6 dB min.	17 dB
8) 2050 to 2075 MHz	2 dB min.	2 dB min.	4 dB
9) 2400 to 2500 MHz	35 dB min.	35 dB min.	41 dB
10) 3650 to 3770 MHz	35 dB min.	35 dB min.	45 dB
11) 4030 to 4150 MHz	43 dB min.	43 dB min.	47 dB
12) 4220 to 4340 MHz	40 dB min.	40 dB min.	53 dB
13) 5950 to 6130 MHz	25 dB min.	25 dB min.	33 dB
14) 6330 to 6510 MHz	20 dB min.	20 dB min.	33 dB
15) 7870 to 8110 MHz	15 dB min.	15 dB min.	22 dB
16) 8440 to 8680 MHz	10 dB min.	10 dB min.	20 dB
17) 8680 to 12750 MHz	5 dB min.	5 dB min.	18 dB
Ripple Deviation (2110 to 2170MHz)	0.8 dB max.	0.7 dB max.	0.3 dB
Ripple Deviation any 3.84MHz (2110 to 2170MHz)	0.5 dB max.	0.4 dB max.	0.2 dB
VSWR			
1) 2110 to 2170MHz (ANT)	2.0 max.	2.0 max.	1.7
2) 2110 to 2170MHz (Rx)	2.0 max.	2.0 max.	1.4
ANT Port Matching Impedance(nominal)	50Ω//3.6nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	50Ω		

# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [ANT→Rx]

## Frequency Performance

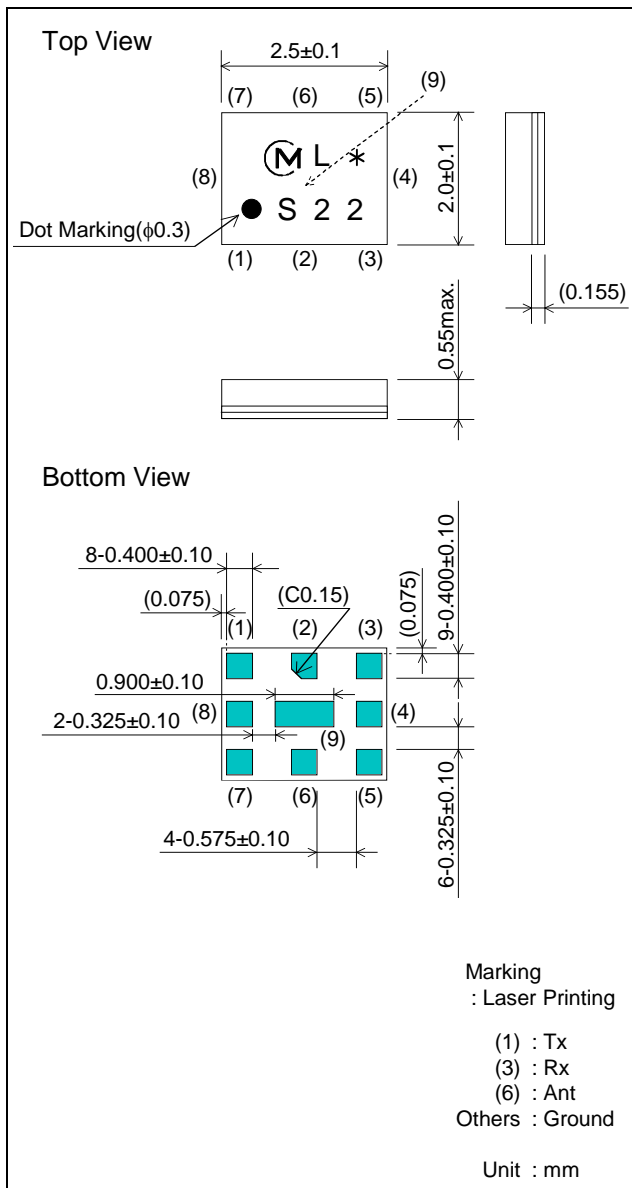


# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [Tx→Rx]

## Package Dimensions

## Specification

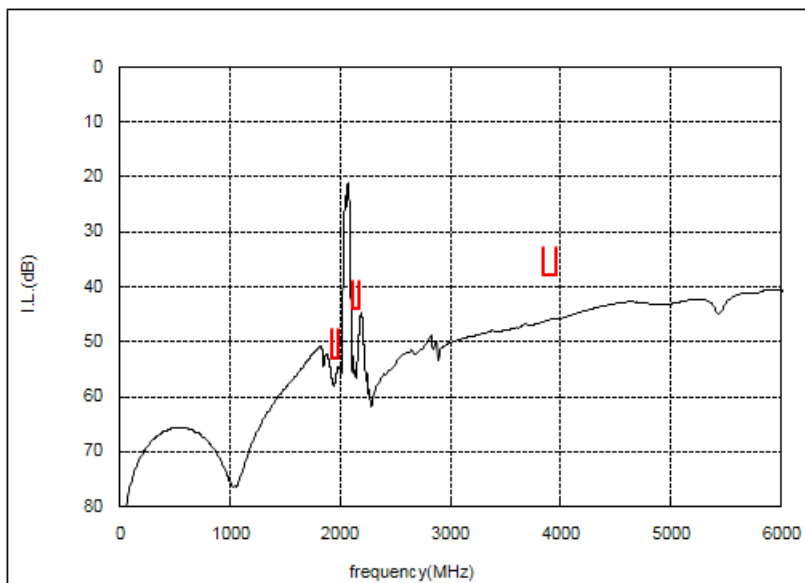
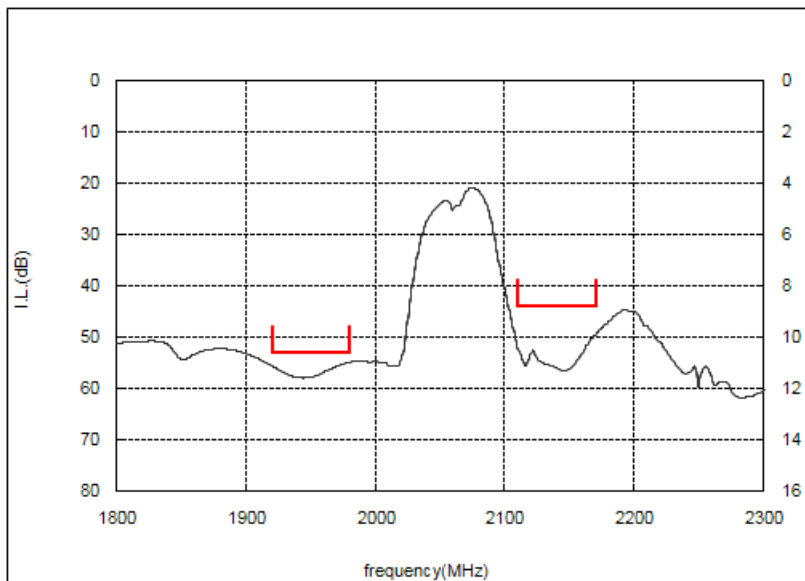


Item	Specification		
	-30 to 85°C	25±2°C	typ.
Isolation			
1) 1920 to 1980 MHz	53 dB min.	53 dB min.	55 dB
2) 2110 to 2170 MHz	44 dB min.	44 dB min.	51 dB
3) 3840 to 3960 MHz	38 dB min.	38 dB min.	47 dB

# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00 [Tx→Rx]

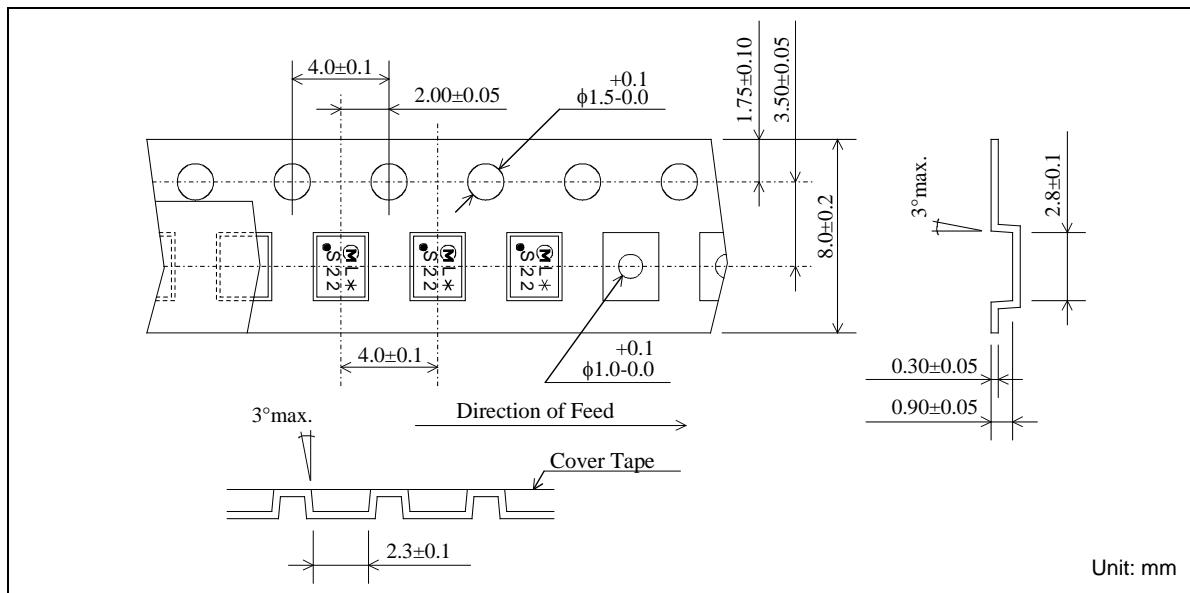
## Frequency Performance



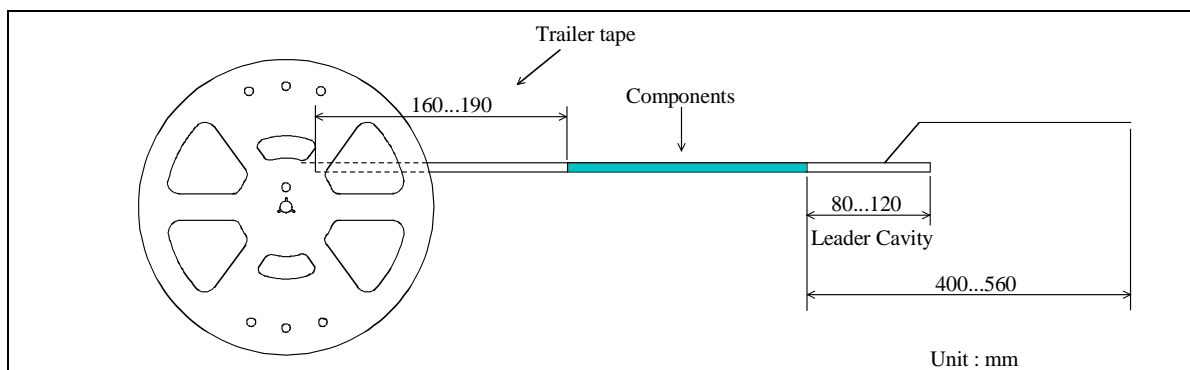
# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00

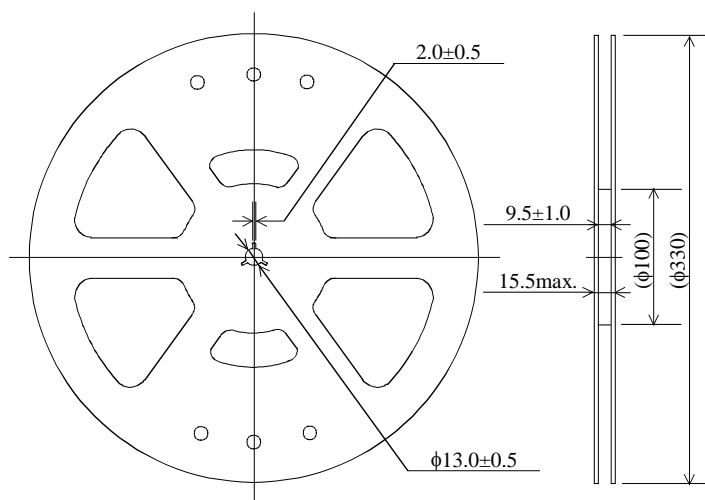
## Dimensions of Carrier Tape



## Dimensions of Tape



## Dimensions of Reel



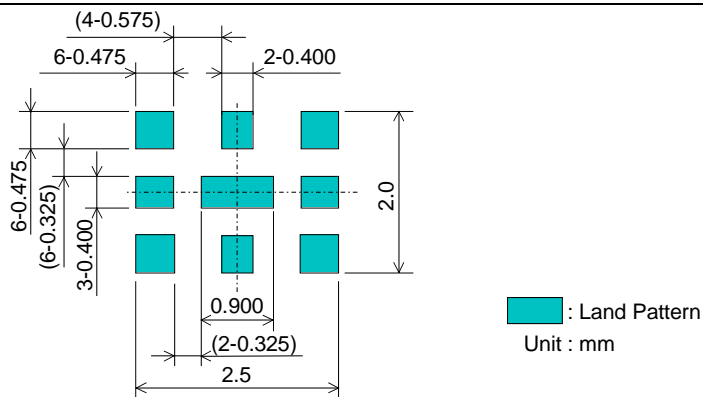
SAYFP1G95AB0B00R00 ... 10000pcs/reel  
SAYFP1G95AB0B00R05 ... 5000pcs/reel

# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00

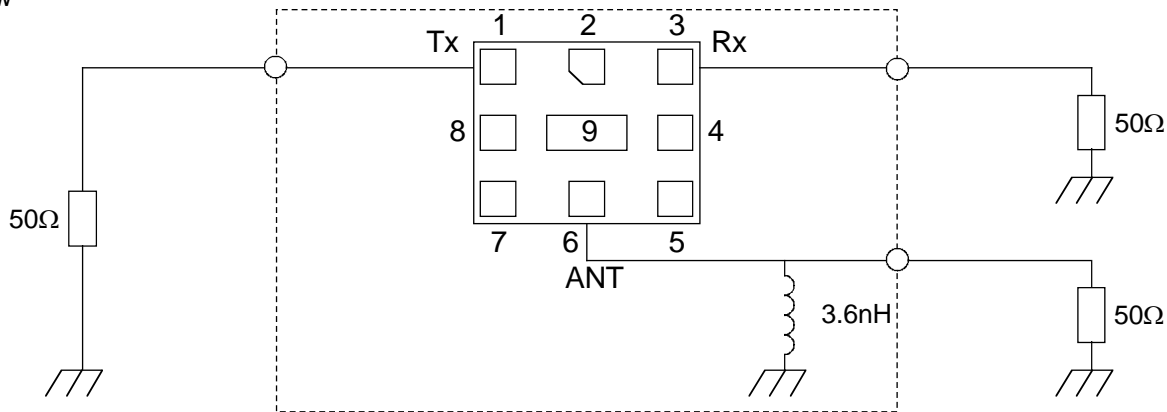
## Recommended Land Pattern

Top View



## Test Circuit

Bottom View



# SAW DPX FOR UMTS BAND1

Murata part number :SAYFP1G95AB0B00

## ■ 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.