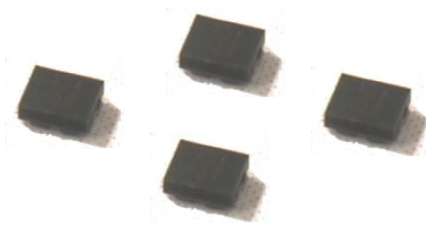




# Data Sheet of SAW Components



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

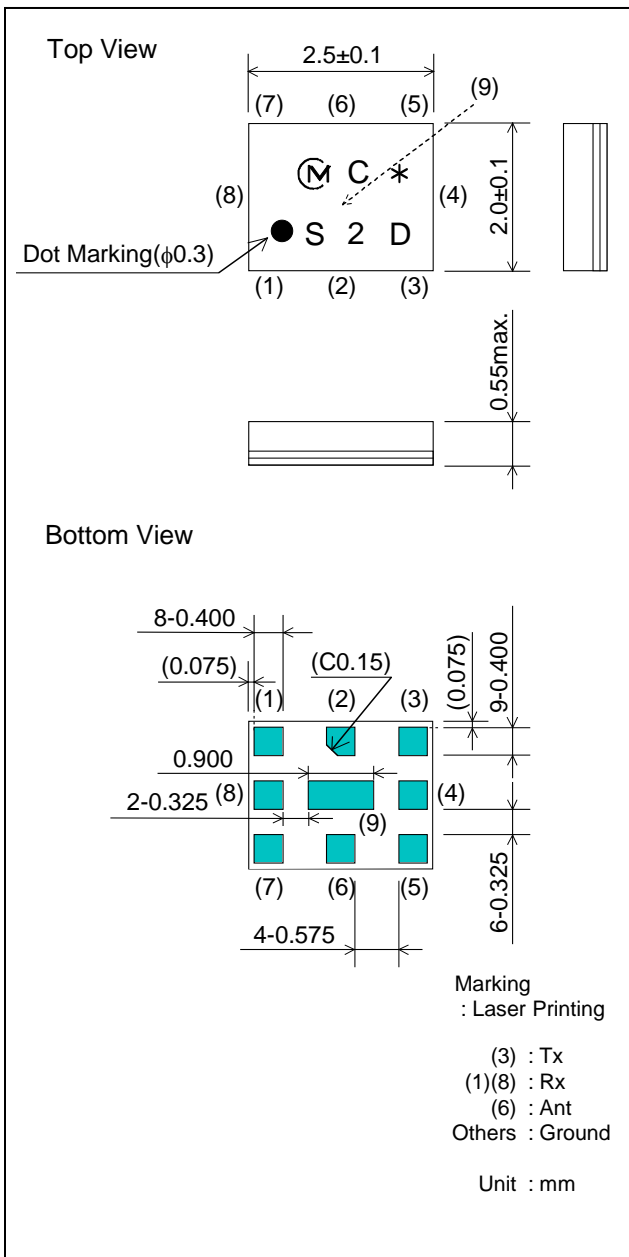
Please also read caution at the end of this document.

# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

[ Tx → ANT ]

## Package Dimensions



## Specification

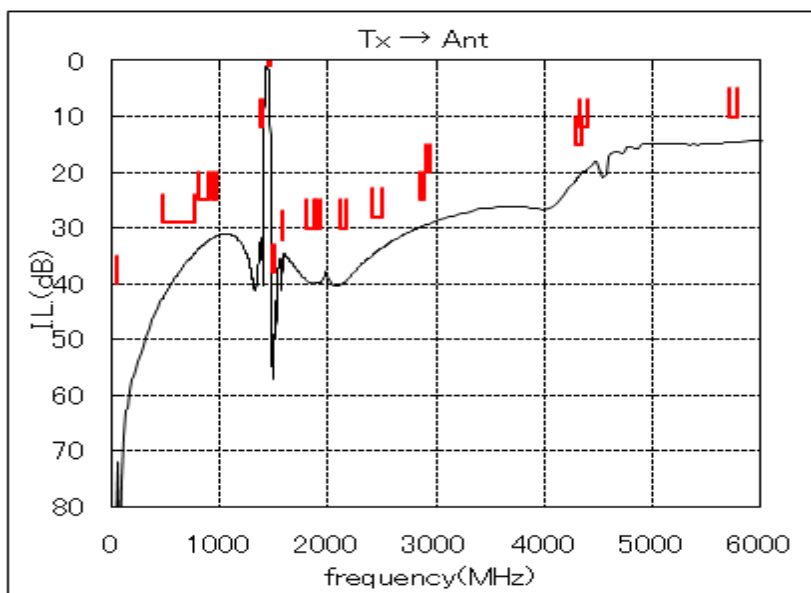
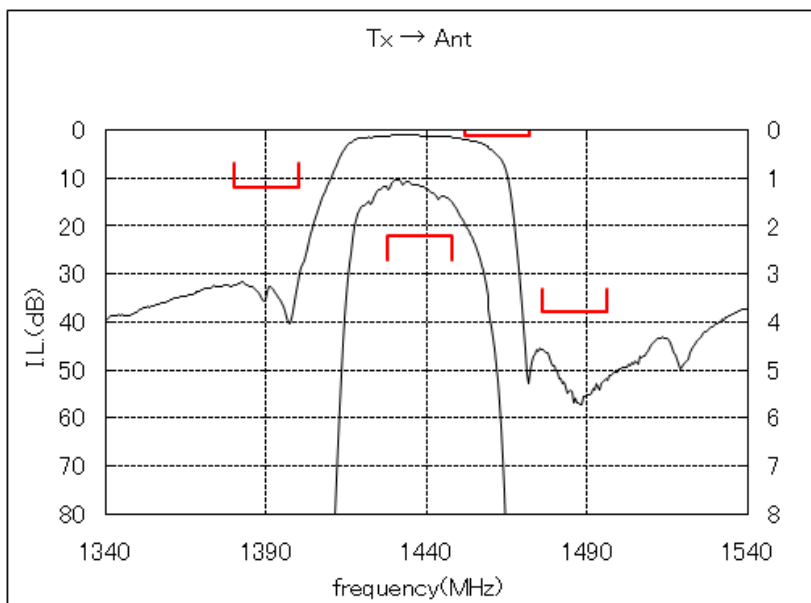
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1437.9MHz		
Insertion Loss (1427.9 to 1447.9MHz)	2.2 dB max.	2.0 dB max.	1.5 dB
Absolute Attenuation			
1) 48 to 48 MHz	40 dB min.	40 dB min.	83 dB
2) 470 to 770 MHz	29 dB min.	29 dB min.	35 dB
3) 810 to 895 MHz	25 dB min.	25 dB min.	34 dB
4) 925 to 960 MHz	25 dB min.	25 dB min.	32 dB
5) 1379.9 to 1399.9 MHz	12 dB min.	12 dB min.	32 dB
6) 1451.9 to 1471.9 MHz	1 dB min.	1 dB min.	2 dB
7) 1475.9 to 1495.9 MHz	38 dB min.	38 dB min.	46 dB
8) 1573 to 1577 MHz	32 dB min.	32 dB min.	39 dB
9) 1805 to 1880 MHz	30 dB min.	30 dB min.	39 dB
10) 1884 to 1920 MHz	30 dB min.	30 dB min.	39 dB
11) 2110 to 2170 MHz	30 dB min.	30 dB min.	40 dB
12) 2400 to 2500 MHz	28 dB min.	28 dB min.	34 dB
13) 2855.8 to 2895.8 MHz	25 dB min.	25 dB min.	30 dB
14) 2903.8 to 2943.8 MHz	20 dB min.	20 dB min.	29 dB
15) 4283.7 to 4343.7 MHz	15 dB min.	15 dB min.	20 dB
16) 4331.7 to 4391.7 MHz	12 dB min.	12 dB min.	20 dB
17) 5711.6 to 5791.6 MHz	10 dB min.	10 dB min.	15 dB
Ripple Deviation (1427.9 to 1447.9MHz)	1.3 dB max.	1.3 dB max.	0.5 dB
Ripple Deviation any 5.0MHz (1427.9 to 1447.9MHz)	0.7 dB max.	0.7 dB max.	0.3 dB
VSWR (1427.9 to 1447.9MHz)	1.8 dB max.	1.8 dB max.	1.5
ANT Port Matching Impedance(nominal)	50Ω//5.8nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	100Ω//22nH		
Input Signal Level	0.8W, 35000 hours (55°C) at W-CDMA		

# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

[ Tx → ANT ]

## Frequency Performance

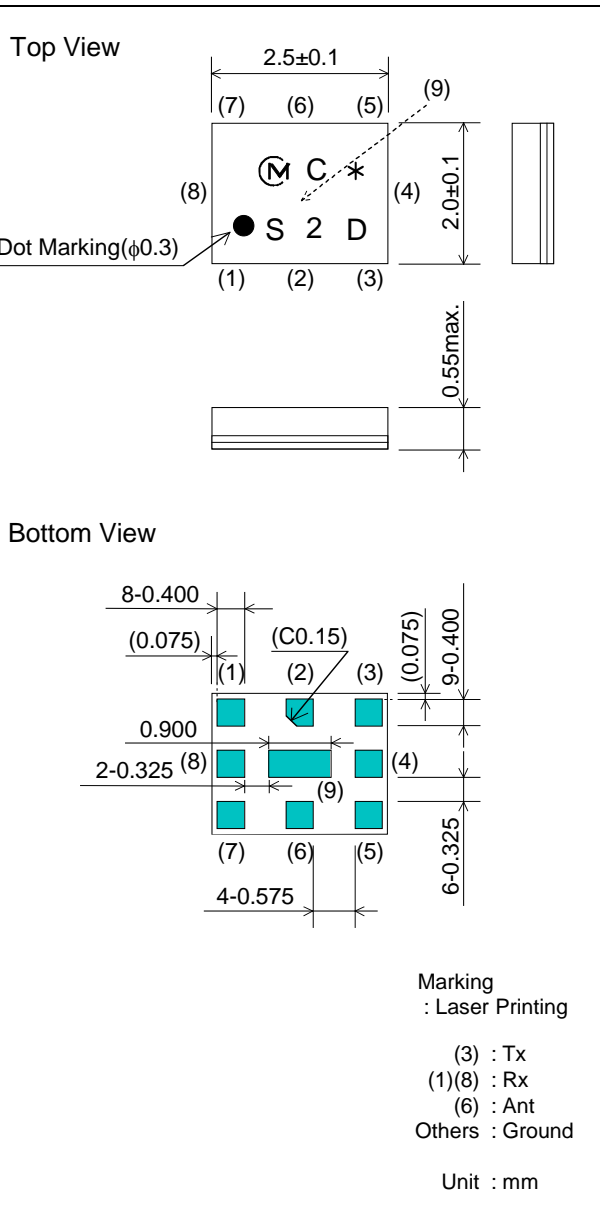


# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

[ ANT → Rx ]

## Package Dimensions



## Specification

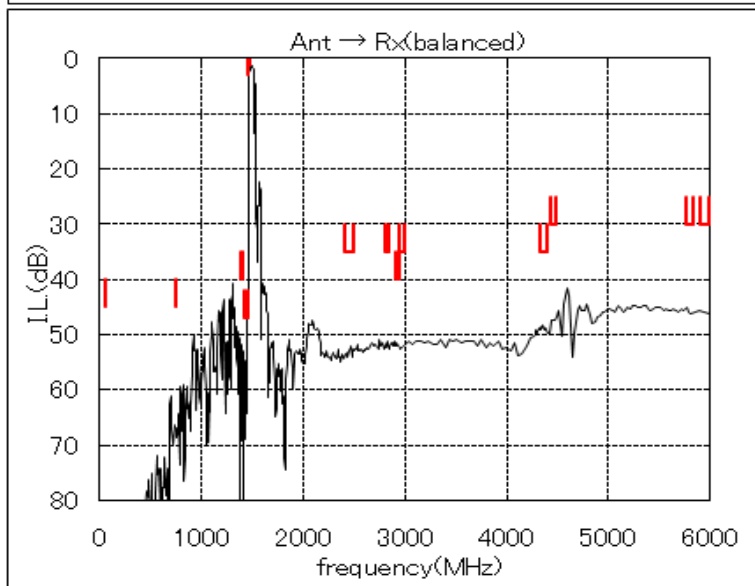
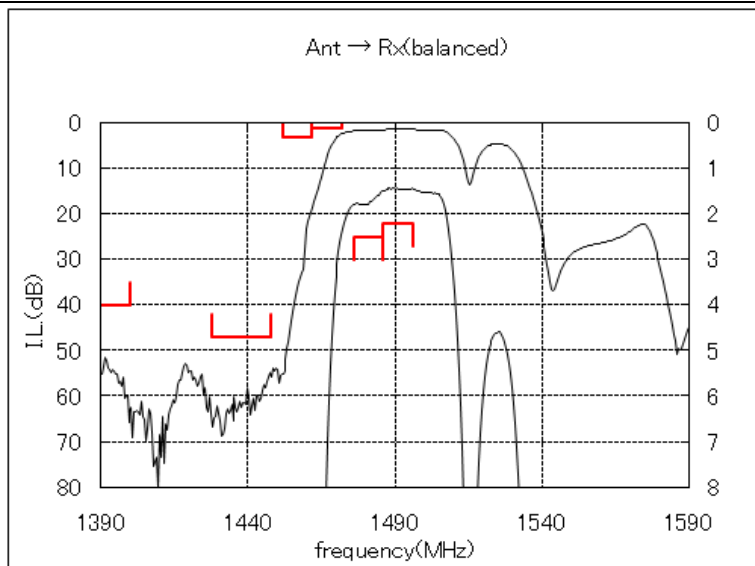
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1485.9MHz		
Insertion Loss			
1) 1475.9 to 1485.9MHz	2.5 dB min.	2.3 dB min.	1.8 dB
2) 1485.9 to 1495.9MHz	2.2 dB min.	2.0 dB min.	1.5 dB
Absolute Attenuation			
1) 48 to 48 MHz	45 dB min.	45 dB min.	105 dB
2) 737.95 to 747.95 MHz	45 dB min.	45 dB min.	66 dB
3) 1379.9 to 1399.9 MHz	40 dB min.	40 dB min.	53 dB
4) 1427.9 to 1447.9 MHz	47 dB min.	47 dB min.	55 dB
5) 1451.9 to 1461.9 MHz	3.0 dB min.	3.0 dB min.	18 dB
6) 1461.9 to 1471.9 MHz	1.3 dB min.	1.3 dB min.	3 dB
7) 2400 to 2500 MHz	35 dB min.	35 dB min.	52 dB
8) 2807.8 to 2847.8 MHz	35 dB min.	35 dB min.	51 dB
9) 2903.8 to 2943.8 MHz	40 dB min.	40 dB min.	51 dB
10) 2951.8 to 2991.8 MHz	35 dB min.	35 dB min.	52 dB
11) 4331.7 to 4391.7 MHz	35 dB min.	35 dB min.	48 dB
12) 4427.7 to 4487.7 MHz	30 dB min.	30 dB min.	46 dB
13) 5759.6 to 5839.6 MHz	30 dB min.	30 dB min.	52 dB
14) 5903.6 to 5983.6 MHz	30 dB min.	30 dB min.	45 dB
Ripple Deviation (1475.9 to 1495.9MHz)	1.0 dB max.	1.0 dB max.	0.4 dB
Ripple Deviation in any 5.0MHz (1475.9 to 1495.9MHz)	0.6 dB max.	0.6 dB max.	0.3 dB
Amplitude Balance (1475.9 to 1495.9MHz)	±1.3 dB max.	±1.3 dB max.	10dB
Phase Balance (1475.9 to 1495.9MHz)	180±14deg. max.	180±14deg. max.	180.0-6.7deg.
VSWR (1475.9 to 1495.9MHz)	1.8 max.	1.8 max.	1.3
ANT Port Matching Impedance(nominal)	50Ω//5.8nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	100Ω//22nH		

# SAW DPX FOR UMTS BAND11

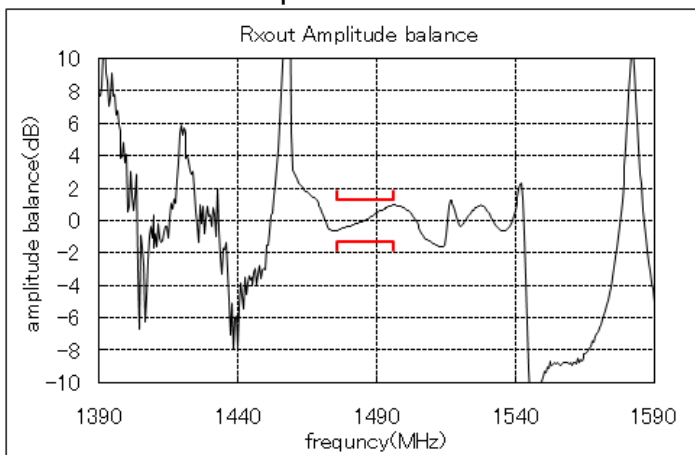
Murata part number :SAYFP1G43CA0F00

[ ANT → Rx]

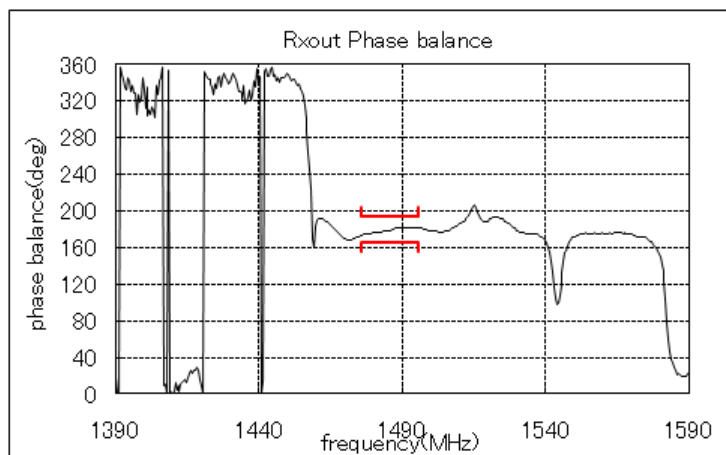
## Frequency Performance



### Amplitude balance



### Phase balance



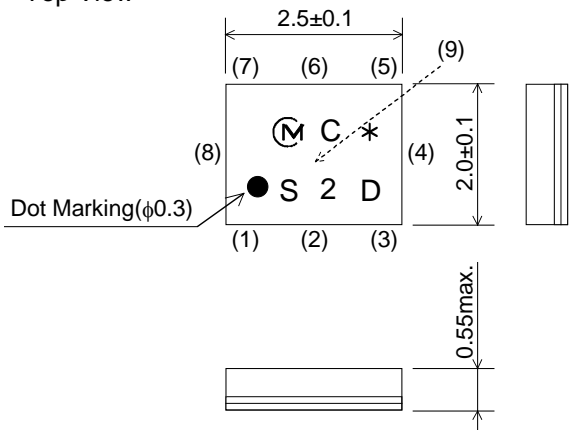
# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

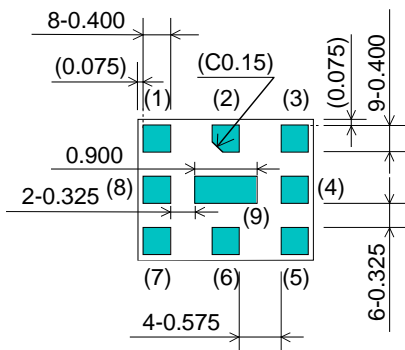
[ Tx → Rx ]

## Package Dimensions

Top View



Bottom View



Marking  
: Laser Printing

(3) : Tx  
(1)(8) : Rx  
(6) : Ant  
Others : Ground

Unit : mm

## Specification

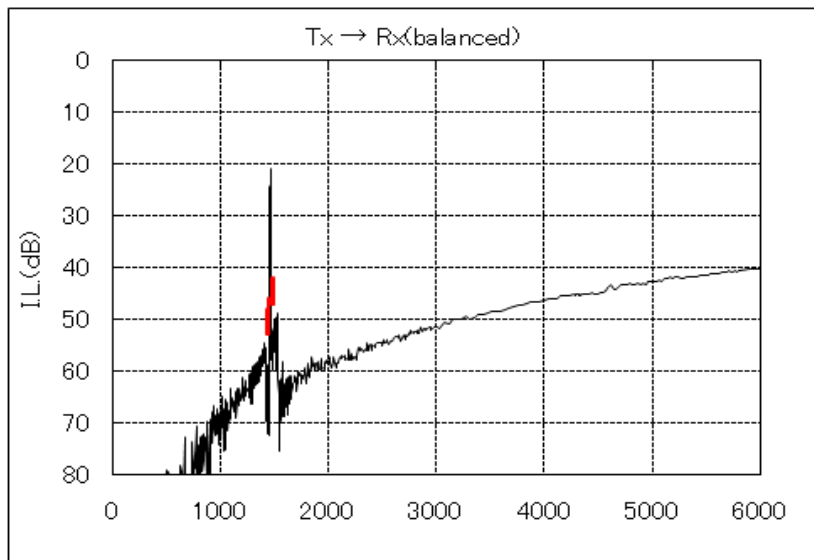
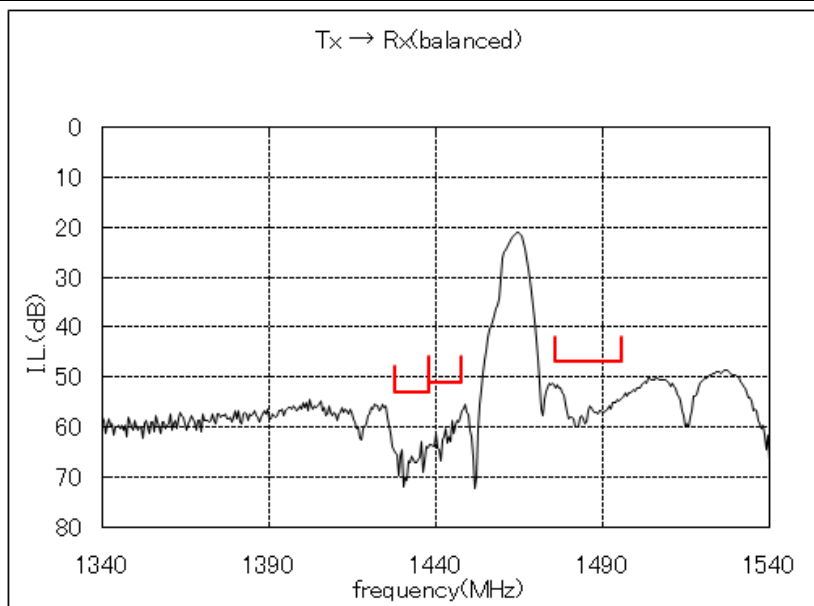
Item	Specification		
	-30to 85°C	25±2°C	typ.
Isolation			
1) 1427.9 to 1437.9 MHz	53 dB min.	53 dB min.	62 dB
2) 1437.9 to 1447.9 MHz	51 dB min.	51 dB min.	58 dB
3) 1475.9 to 1495.9 MHz	47 dB min.	47 dB min.	52 dB

# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

[ Tx → Rx ]

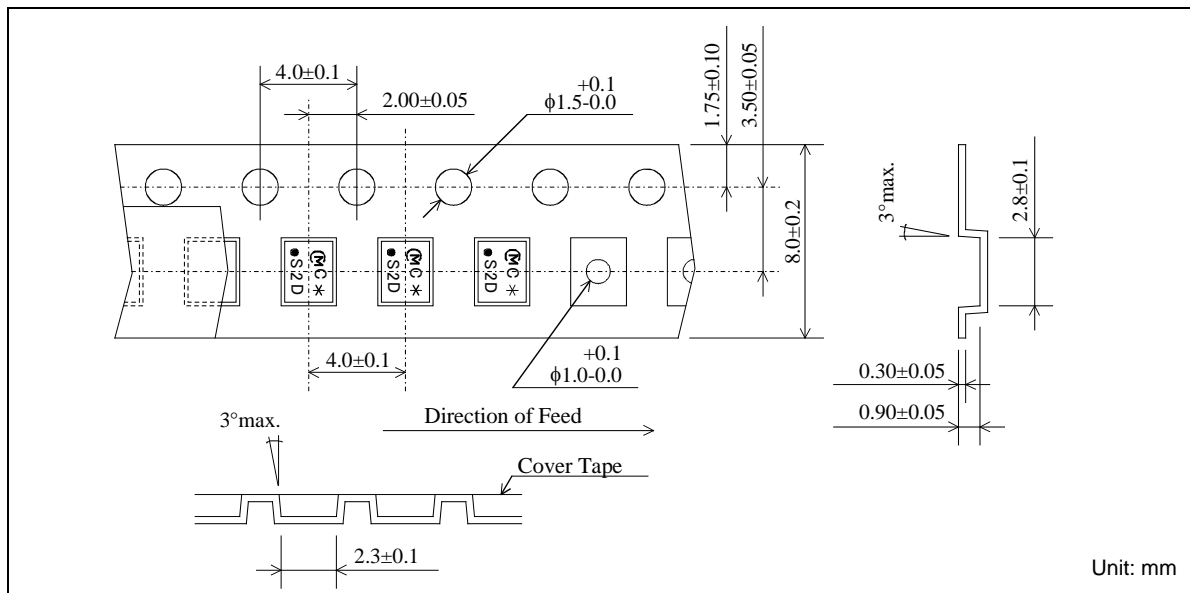
## Frequency Performance



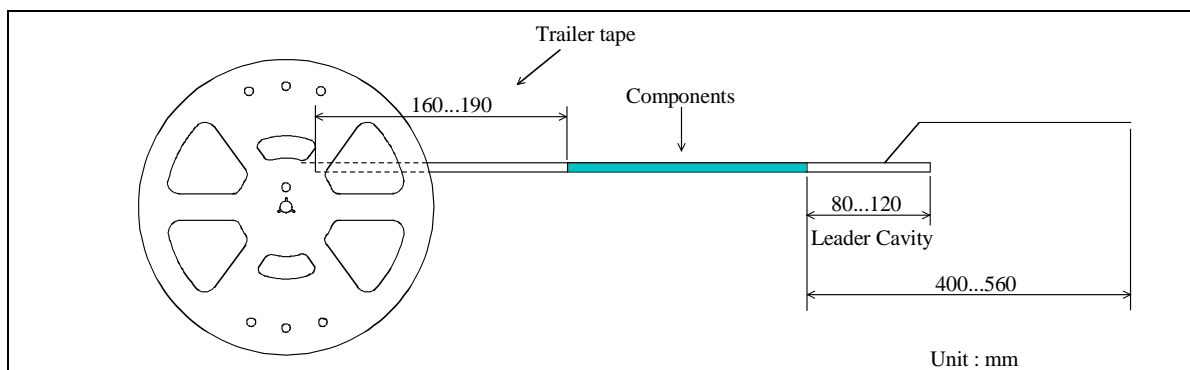
# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

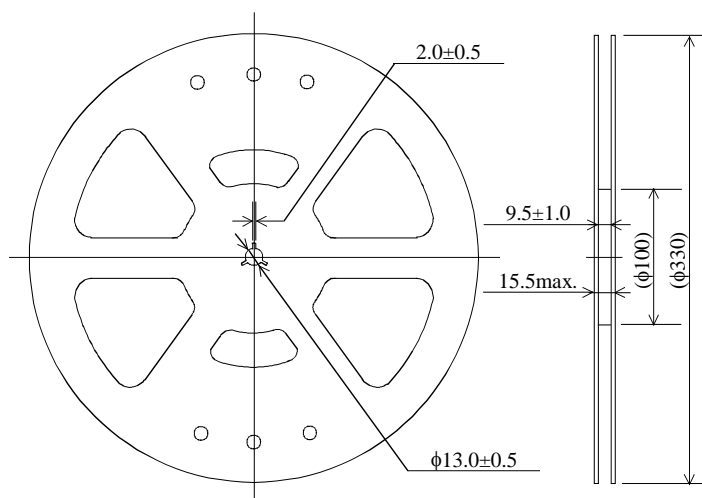
## Dimensions of Carrier Tape



## Dimensions of Tape



## Dimensions of Reel



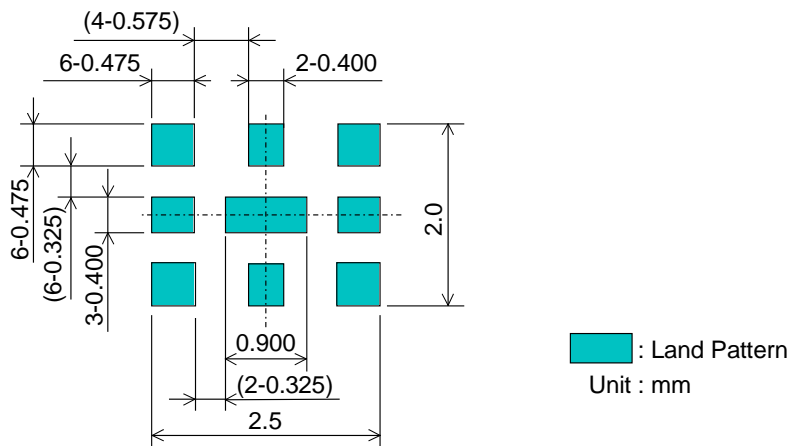
SAYFP1G43CA0F00R00 ... 10000pcs/reel  
SAYFP1G43CA0F00R05 ... 5000pcs/reel

# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

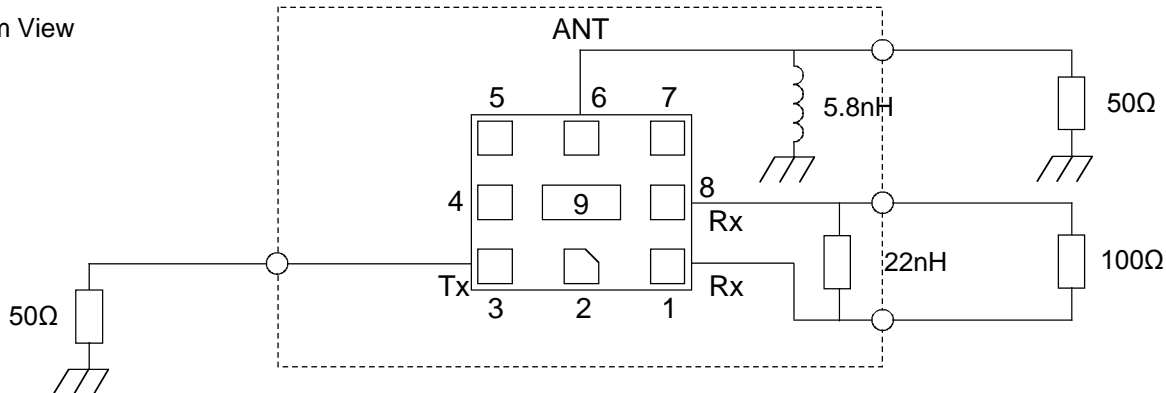
## Recommended Land Pattern

Top View



## Test Circuit

Bottom View



# SAW DPX FOR UMTS BAND11

Murata part number :SAYFP1G43CA0F00

## ■ 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.