



Data Sheet of SAW Components



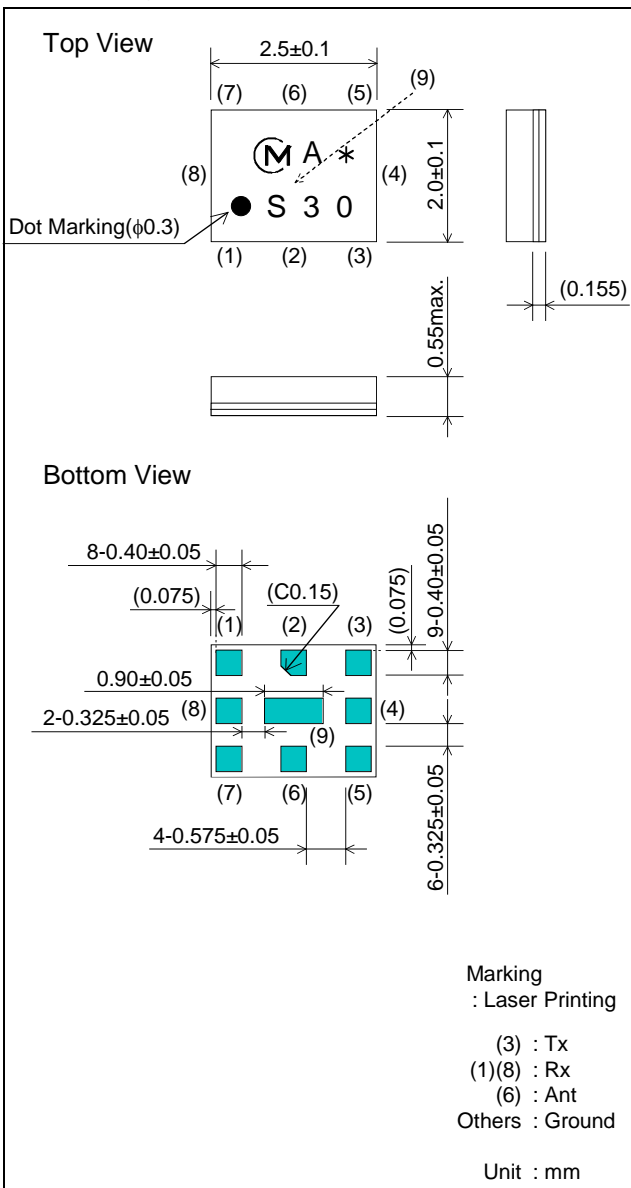
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00 [Tx→ANT]

Package Dimensions



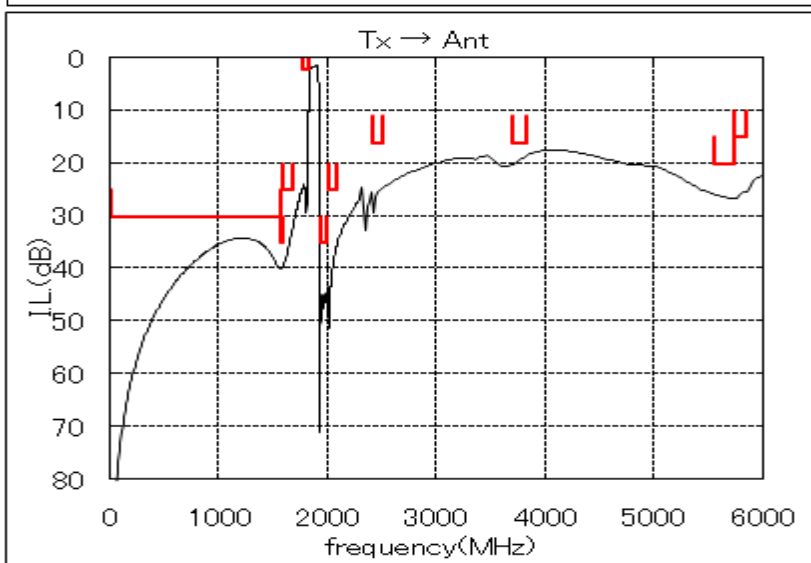
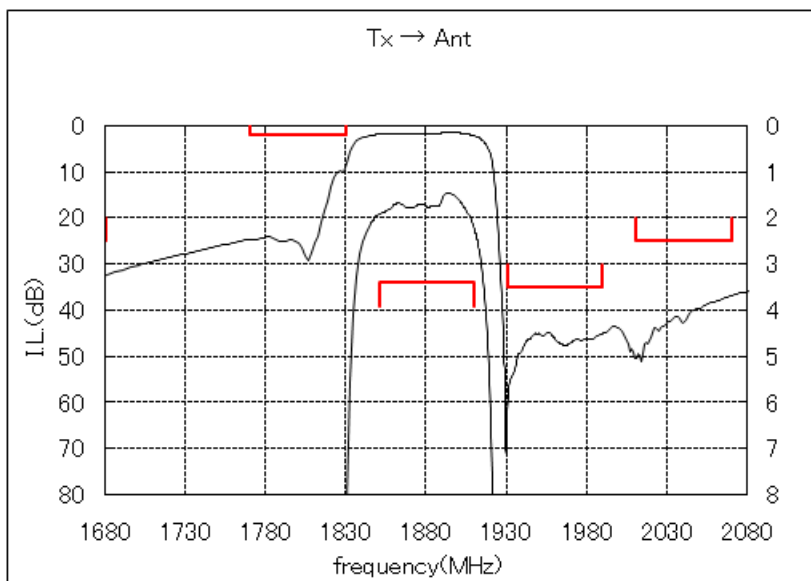
Specification

Item	Specification			
	-30 to 85°C	-15 to 80°C	25±2°C	typ.
Nominal Center Frequency(fc)	1880MHz			
Insertion Loss (1850.48 to 1909.52MHz)	3.4 dB max.	3.4 dB max.	3.1 dB max.	2.3 dB
Absolute Attenuation				
1) 0.1 to 1570 MHz	30 dB min.	30 dB min.	30 dB min.	34 dB
2) 1570 to 1580 MHz	35 dB min.	35 dB min.	35 dB min.	40 dB
3) 1580 to 1680 MHz	25 dB min.	25 dB min.	25 dB min.	33 dB
4) 1770 to 1830 MHz	2 dB min.	2 dB min.	2 dB min.	9 dB
5) 1930.48 to 1989.52 MHz	35 dB min.	40 dB min.	42 dB min.	44 dB
6) 2010 to 2070 MHz	25 dB min.	25 dB min.	25 dB min.	38 dB
7) 2400 to 2500 MHz	16 dB min.	16 dB min.	16 dB min.	24 dB
8) 3700 to 3820 MHz	16 dB min.	17 dB min.	17 dB min.	19 dB
9) 5550 to 5730 MHz	20 dB min.	20 dB min.	20 dB min.	26 dB
10) 5730 to 5850 MHz	15 dB min.	15 dB min.	15 dB min.	25 dB
Ripple Deviation (1850.48 to 1909.52MHz)	2.3 dB max.	2.2 dB max.	1.9 dB max.	0.7 dB
Ripple Deviation any 3.84MHz (1850.48 to 1909.52MHz)	1.3 dB max.	1.3 dB max.	1.2 dB max.	0.3 dB
VSWR				
1850.48 to 1909.52MHz (Tx)	2.3 max.	2.2 max.	2.1 max.	1.8
1850.48 to 1909.52MHz (Ant)	2.0 max.	1.9 max.	1.8 max.	1.6
ANT Port Matching Impedance(nominal)	50Ω//3.9nH			
Tx Port Matching Impedance(nominal)	50Ω			
Rx Port Matching Impedance(nominal)	100Ω//12nH			
Input Signal Level	0.8W(29dBm), 55°C,35000 hours at WCDMA modulation			

SAW DPX FOR UMTS BAND2

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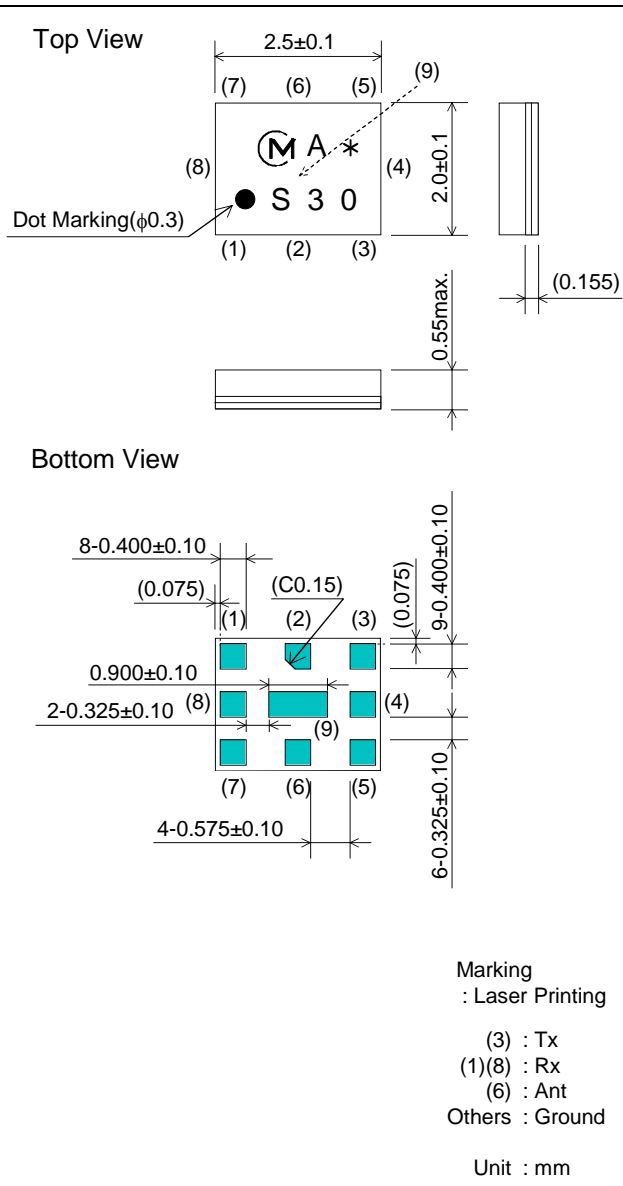
Frequency Performance



SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00 [ANT → Rx]

Package Dimensions



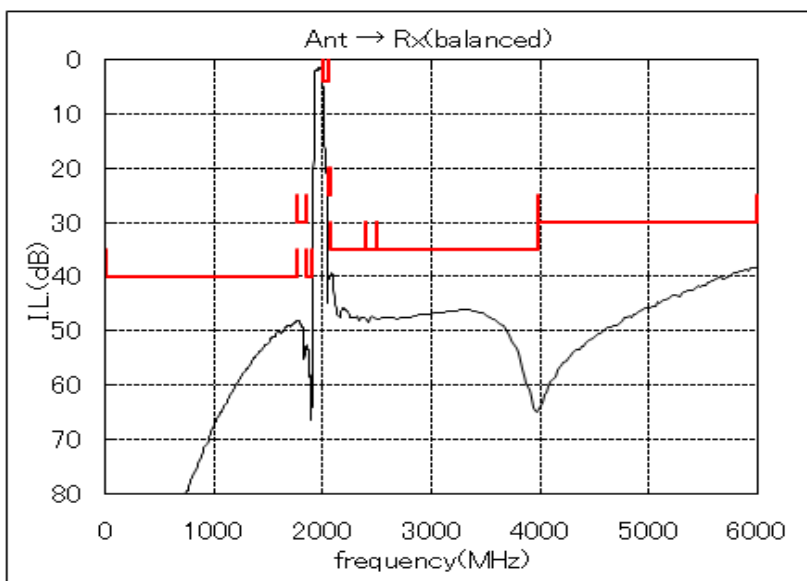
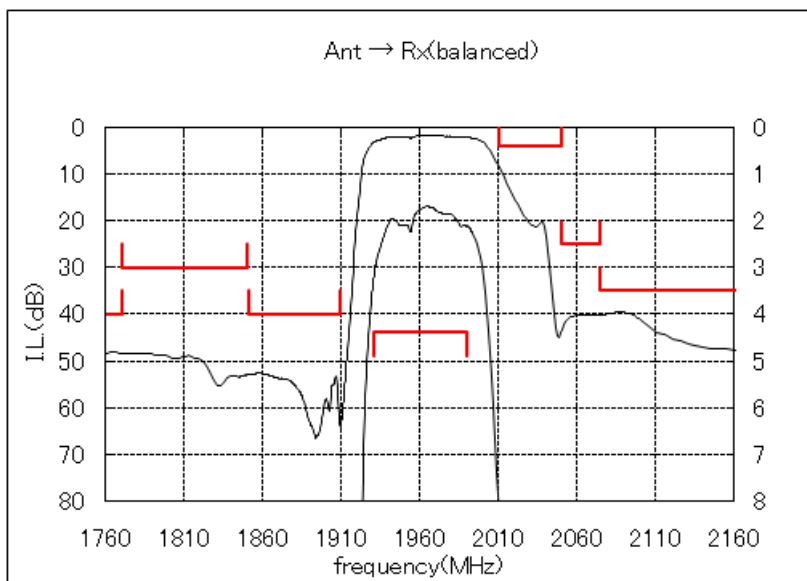
Specification

Item	Specification			
	-30 to 80°C	-15 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1960MHz			
Insertion Loss (1930.48 to 1989.52MHz)	4.4 dB max.	4 dB max.	3.7 dB max.	3.1 dB
Absolute Attenuation				
1) 0.1 to 1770 MHz	40 dB min.	40 dB min.	40 dB min.	49 dB
2) 1770 to 1850 MHz	30 dB min.	30 dB min.	30 dB min.	49 dB
3) 1850.48 to 1909.52 MHz	40 dB min.	44 dB min.	47 dB min.	53 dB
4) 2010 to 2050 MHz	4 dB min.	5 dB min.	5 dB min.	8 dB
5) 2050 to 2075 MHz	25 dB min.	25 dB min.	25 dB min.	40 dB
6) 2075 to 2400 MHz	35 dB min.	35 dB min.	35 dB min.	39 dB
7) 2400 to 2500 MHz	35 dB min.	35 dB min.	35 dB min.	48 dB
8) 2500 to 3980 MHz	35 dB min.	35 dB min.	35 dB min.	47 dB
9) 3980 to 6000 MHz	30 dB min.	30 dB min.	30 dB min.	37 dB
Ripple Deviation (1930.48 to 1989.52MHz)	3.0 dB max.	2.5 dB max.	2.2 dB max.	1.4 dB
Ripple Deviation any 3.84MHz (1930.48 to 1989.52MHz)	1.7 dB max.	1.4 dB max.	1.3 dB max.	0.7 dB
Amplitude Balance (1930.48 to 1989.52MHz)	±1.1 max.	±1.0 max.	±1.0 max.	0.6
Phase Balance (1930.48 to 1989.52MHz)	180±11deg. max.	180±10deg. max.	180±10deg. max.	180+4.4deg.
VSWR				
1930.48 to 1989.52MHz (Rx)	2.1 max.	1.9 max.	1.9 max.	1.3
1930.48 to 1989.52MHz (Ant)	2.1 max.	1.9 max.	1.9 max.	1.4
ANT Port Matching Impedance(nominal)	50Ω//3.9nH			
Tx Port Matching Impedance(nominal)	50Ω			
Rx Port Matching Impedance(nominal)	100Ω//12nH			

SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00 [Tx→ANT]

Frequency Performance

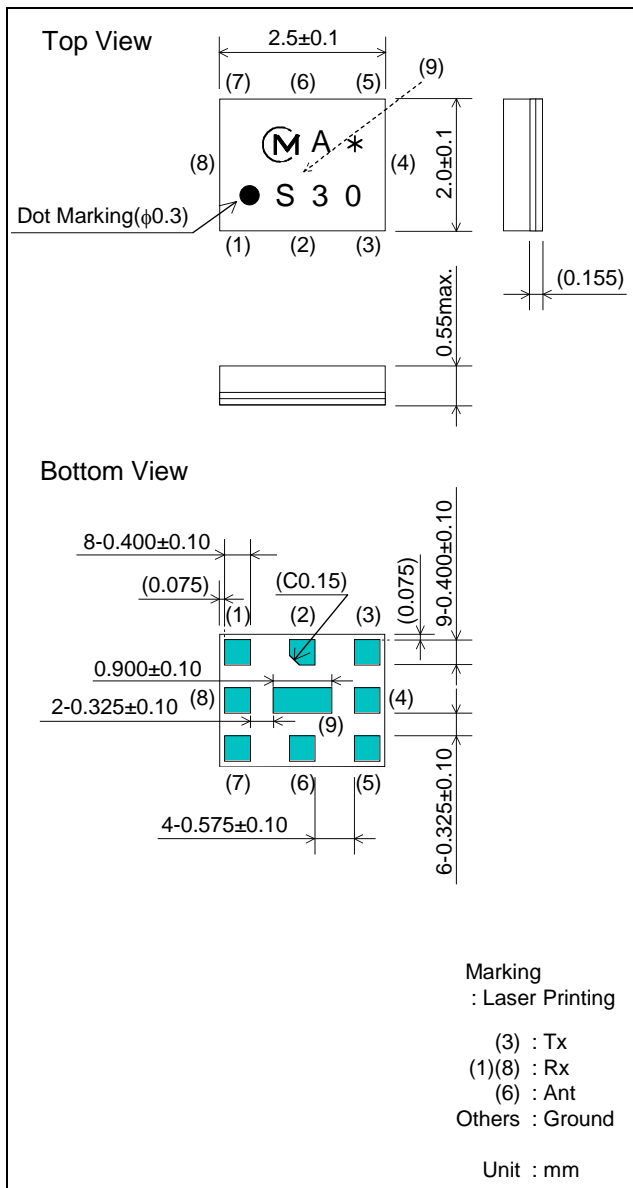


SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00 [Tx→Rx]

Package Dimensions

Specification

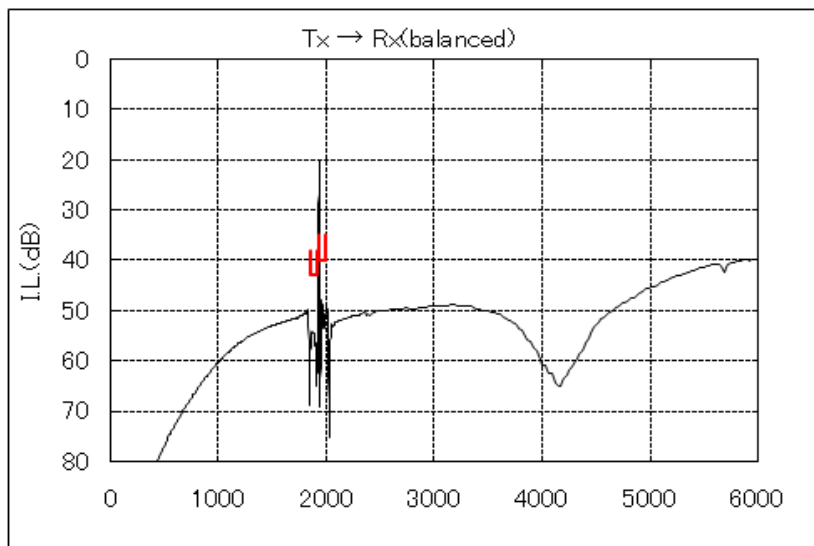
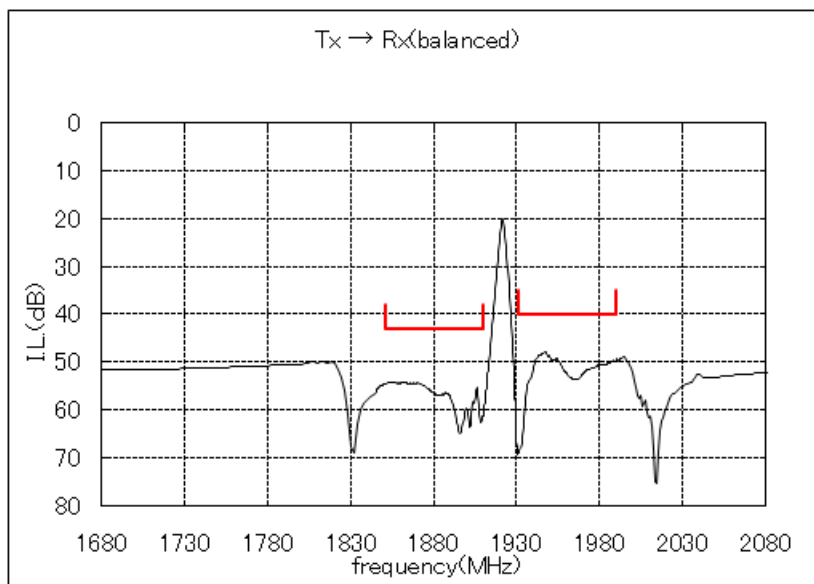


Item	Specification			
	-30 to 80°C	-15 to 85°C	25±2°C	typ.
Isolation				
1) 1850.48 to 1909.52 MHz	43 dB min.	51 dB min.	51 dB min.	54 dB
2) 1930.48 to 1989.52 MHz	40 dB min.	43 dB min.	44 dB min.	47 dB

SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00 [Tx→Rx]

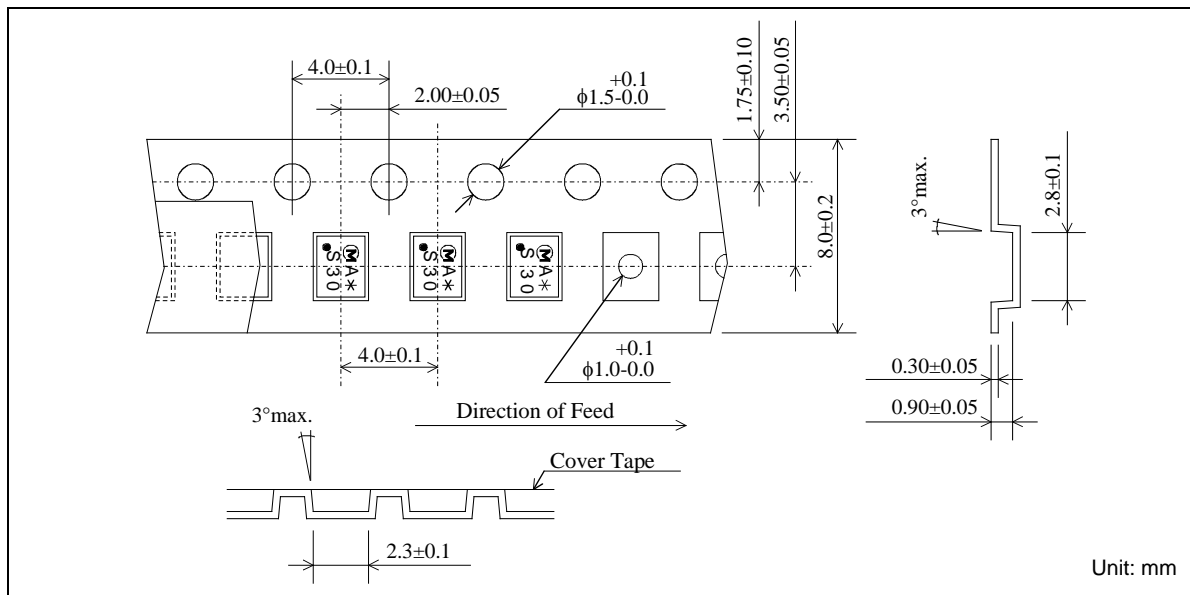
Frequency Performance



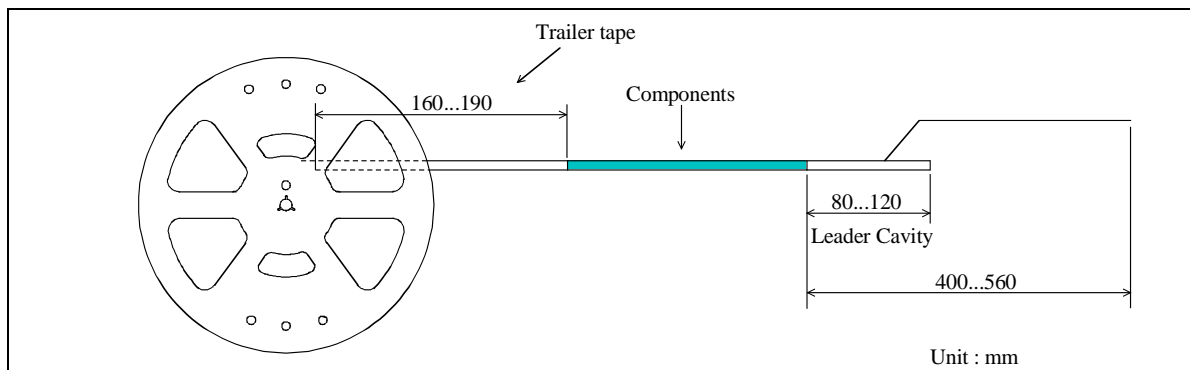
SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00

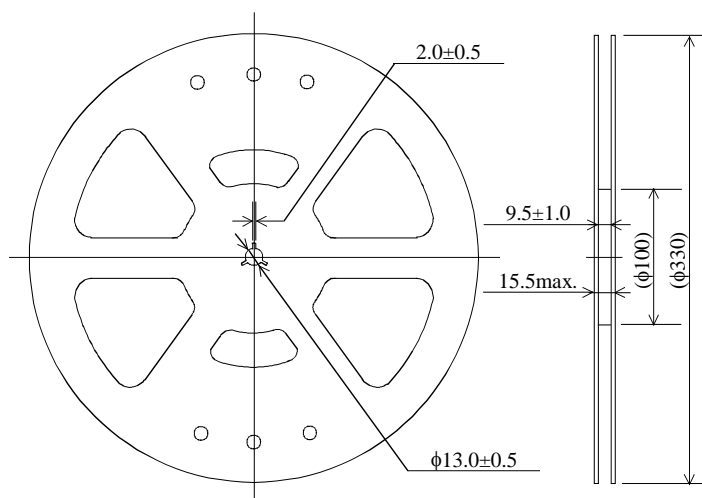
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



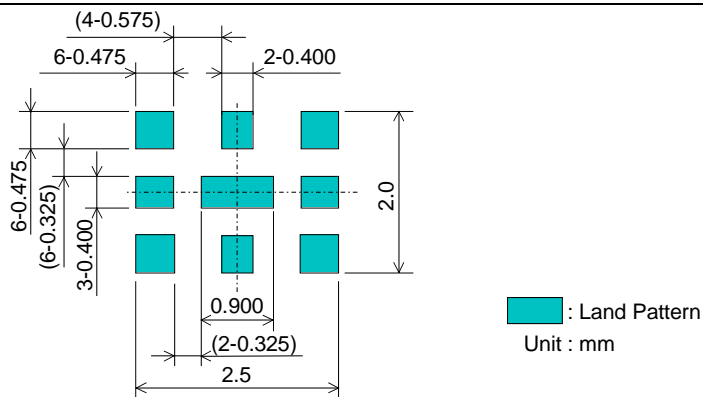
SAYFP1G88CA0B00R00 ... 10000pcs/reel
SAYFP1G88CA0B00R05 ... 5000pcs/reel

SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00

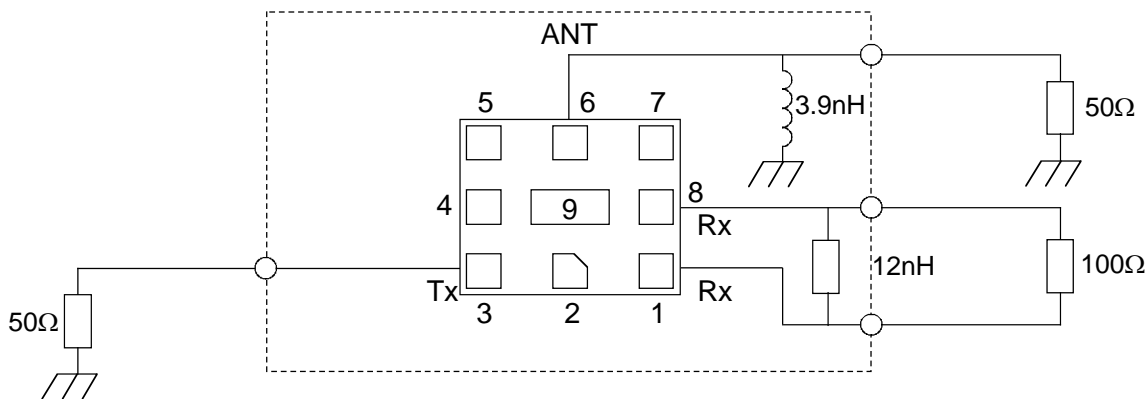
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW DPX FOR UMTS BAND2

Murata part number :SAYFP1G88CA0B00

■ 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.