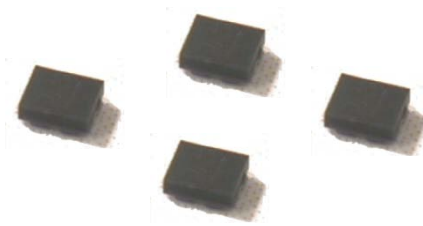




Data Sheet of SAW Components



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

Please also read caution at the end of this document.

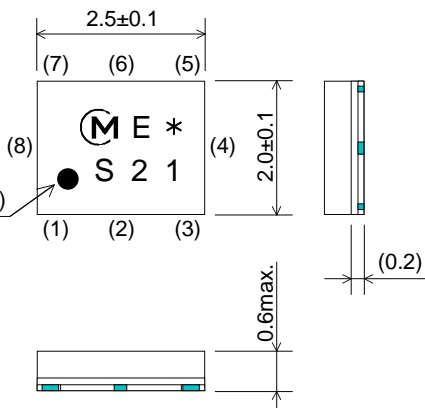
SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00 [Tx→ANT]

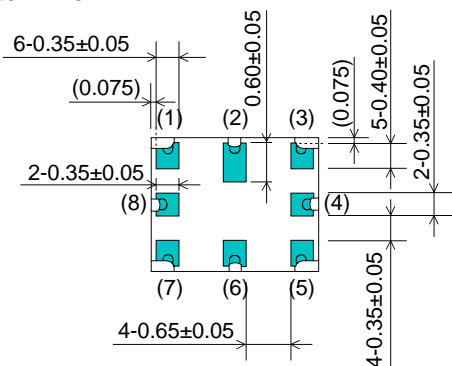
Package Dimensions

Specification

Top View



Bottom View



Marking
: Laser Printing

(3) : Tx
(1) : Rx
(6) :ANT
Others : Ground

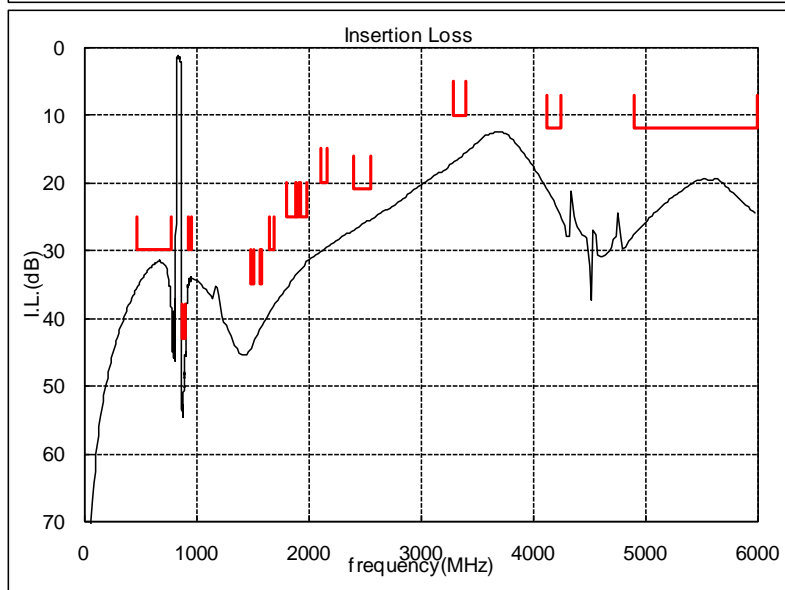
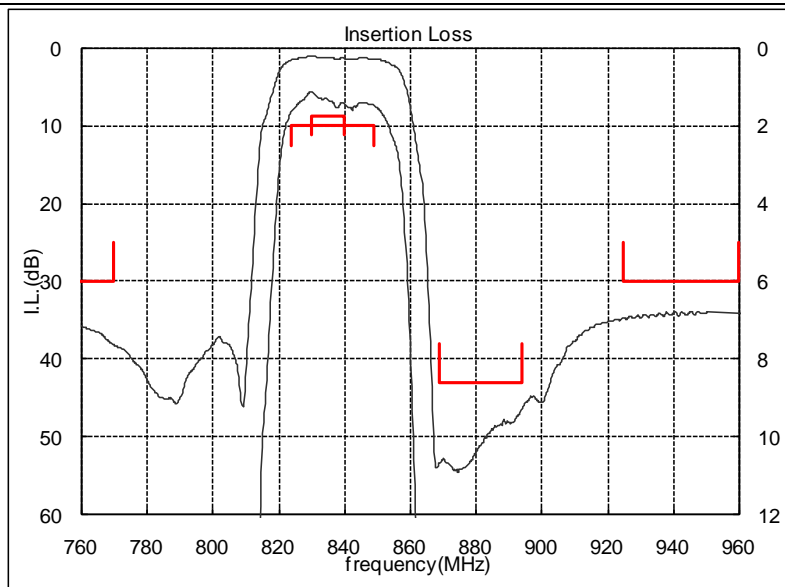
Unit : mm

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(f_c)	836.5MHz		
Insertion Loss (824 to 849MHz)	2.0 dB max.	1.8 dB max.	1.62 dB
(830 to 840MHz)	1.75 dB max.	1.65 dB max.	1.56 dB
Absolute Attenuation			
1) 470 to 770 MHz	30 dB min.	30 dB min.	31 dB
2) 869 to 894 MHz	43 dB min.	43 dB min.	46 dB
3) 925 to 960 MHz	30 dB min.	30 dB min.	34 dB
4) 1477 to 1516 MHz	35 dB min.	35 dB min.	43 dB
5) 1573 to 1577 MHz	35 dB min.	35 dB min.	41 dB
6) 1648 to 1698 MHz	30 dB min.	30 dB min.	38 dB
7) 1805 to 1880 MHz	25 dB min.	25 dB min.	34 dB
8) 1884 to 1920 MHz	25 dB min.	25 dB min.	33 dB
9) 1930 to 1990 MHz	25 dB min.	25 dB min.	31 dB
10) 2110 to 2170 MHz	20 dB min.	20 dB min.	29 dB
10) 2400 to 2547 MHz	21 dB min.	21 dB min.	26 dB
10) 3296 to 3396 MHz	10 dB min.	10 dB min.	17 dB
10) 4120 to 4245 MHz	12 dB min.	12 dB min.	21 dB
10) 4900 to 6000 MHz	12 dB min.	12 dB min.	26 dB
Ripple Deviation (824 to 849MHz)	1.0 dB max.	1.0 dB max.	0.5 dB
(830 to 840MHz)	0.8 dB max.	0.8 dB max.	0.4 dB
VSWR (824 to 849MHz)	2.0 max.	2.0 max.	1.8
(830 to 840MHz)	2.0 max.	2.0 max.	1.8
ANT Port Matching Impedance(normal)	50Ω/9.1nH		
Tx Port Matching Impedance(normal)	50Ω		
Rx Port Matching Impedance(normal)	50Ω		
Input Signal Level	1.0W, 50000 hours (50°C)		

SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00 [Tx→ANT]

Frequency Performance

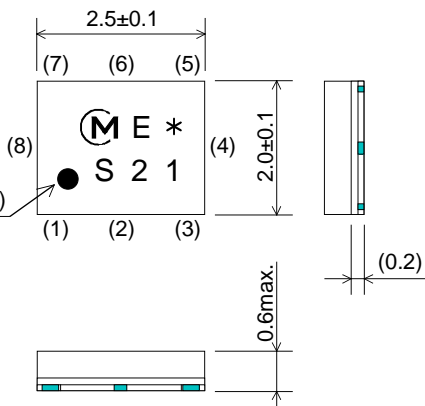


SAW DPX FOR CDMA800/UMTS BC5 LR type

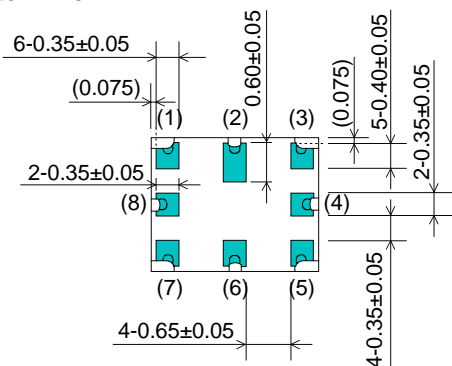
Murata part number :SAYEV836MAC0F00 [ANT→Rx]

Package Dimensions

Top View



Bottom View



Marking
: Laser Printing

(3) : Tx
(1) : Rx
(6) :ANT

Others : Ground

Unit : mm

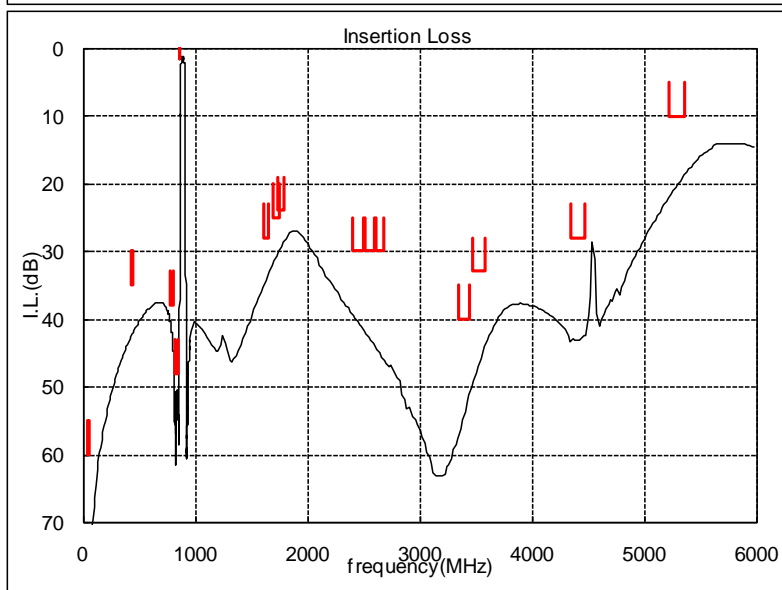
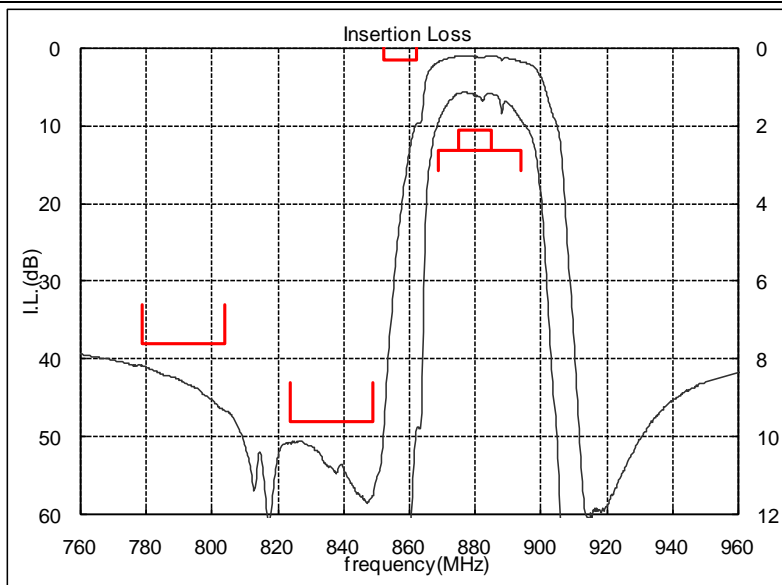
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	881.5MHz		
Insertion Loss (869 to 894MHz) (875 to 885MHz)	2.65 dB max.	2.4 dB max.	1.87 dB
	2.1 dB max.	1.9 dB max.	1.36 dB
Absolute Attenuation			
1) 40 to 50 MHz	60 dB min.	60 dB min.	78 dB
2) 434.5 to 447 MHz	35 dB min.	35 dB min.	42 dB
3) 779 to 804 MHz	38 dB min.	38 dB min.	41 dB
4) 824 to 849 MHz	48 dB min.	48 dB min.	50 dB
5) 852.5 to 862.5 MHz	1.5 dB min.	1.5 dB min.	9.8 dB
6) 1603 to 1653 MHz	28 dB min.	28 dB min.	33 dB
7) 1693 to 1743 MHz	25 dB min.	25 dB min.	30 dB
8) 1738 to 1788 MHz	24 dB min.	24 dB min.	28 dB
9) 2400 to 2497 MHz	30 dB min.	30 dB min.	39 dB
10) 2517 to 2592 MHz	30 dB min.	30 dB min.	42 dB
11) 2607 to 2682 MHz	30 dB min.	30 dB min.	44 dB
12) 3341 to 3441 MHz	40 dB min.	40 dB min.	51 dB
13) 3476 to 3576 MHz	33 dB min.	33 dB min.	44 dB
14) 4345 to 4470 MHz	28 dB min.	28 dB min.	42 dB
15) 5214 to 5364 MHz	10 dB min.	10 dB min.	18 dB
Ripple Deviation (869 to 894MHz) (875 to 885MHz)	1.5 dB max.	1.5 dB max.	0.7 dB
	1.0 dB max.	1.0 dB max.	0.2 dB
VSWR (869 to 894MHz) (875 to 885MHz)	2.0 max.	2.0 max.	1.6
	2.0 max.	2.0 max.	1.5
ANT Port Matching Impedance(normal)	50Ω//9.1nH		
Tx Port Matching Impedance(normal)	50Ω		
Rx Port Matching Impedance(normal)	50Ω		

SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00 [ANT→Rx]

Frequency Performance

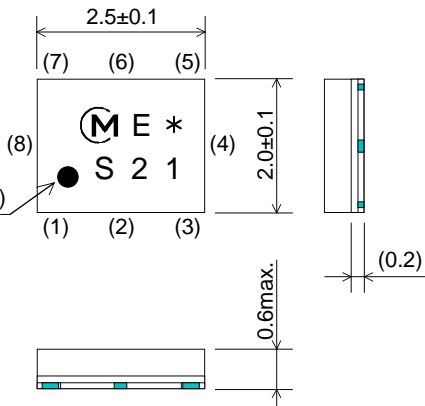


SAW DPX FOR CDMA800/UMTS BC5 LR type

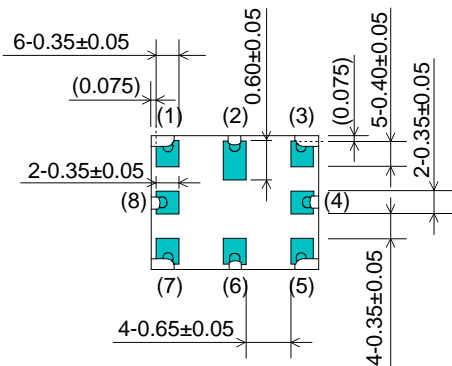
Murata part number :SAYEV836MAC0F00 [Tx→Rx]

Package Dimensions

Top View



Bottom View



Marking
: Laser Printing

(3) : Tx

(1) : Rx

(6) : ANT

Others : Ground

Unit : mm

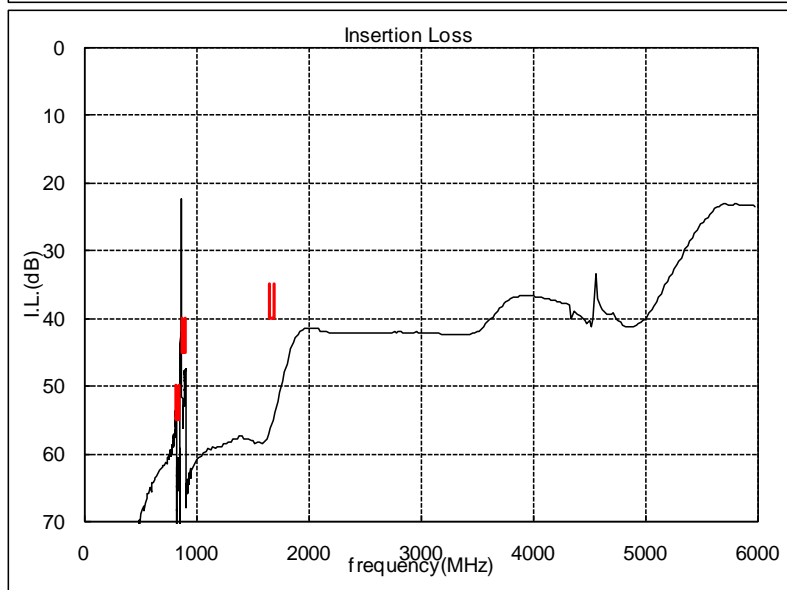
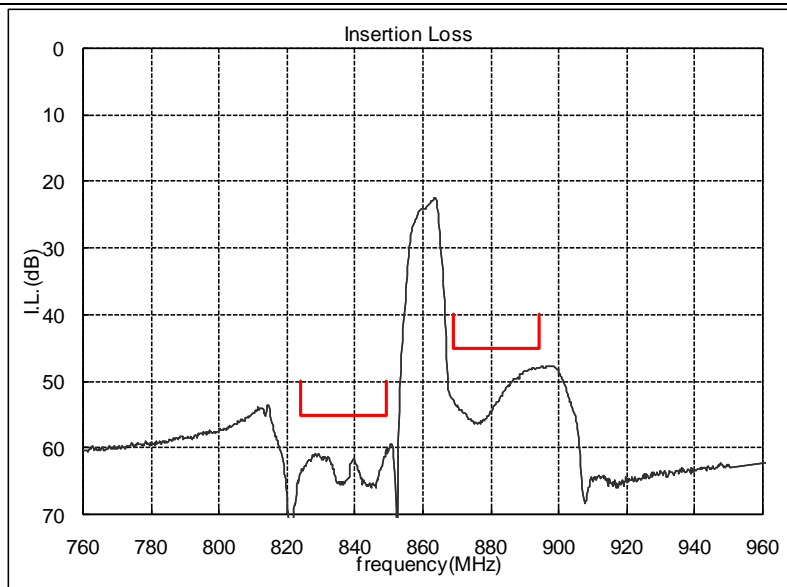
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Isolation			
1) 824 to 849 MHz	55 dB min.	55 dB min.	60 dB
2) 869 to 894 MHz	45 dB min.	45 dB min.	48 dB
3) 1648 to 1698 MHz	40 dB min.	40 dB min.	54 dB

SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00 [Tx→Rx]

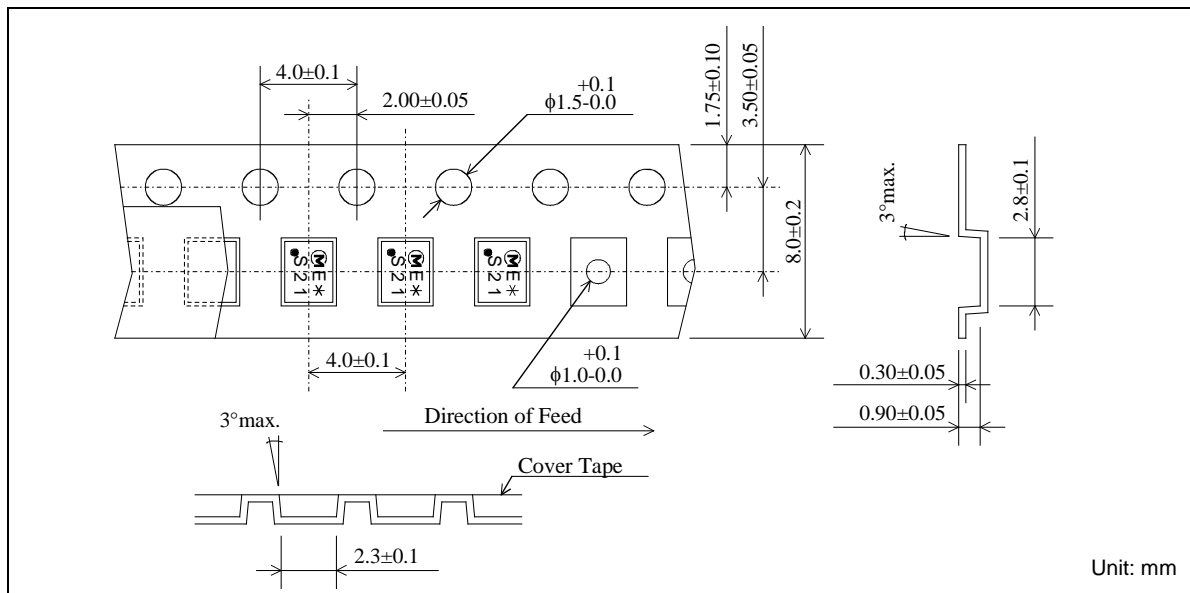
Frequency Performance



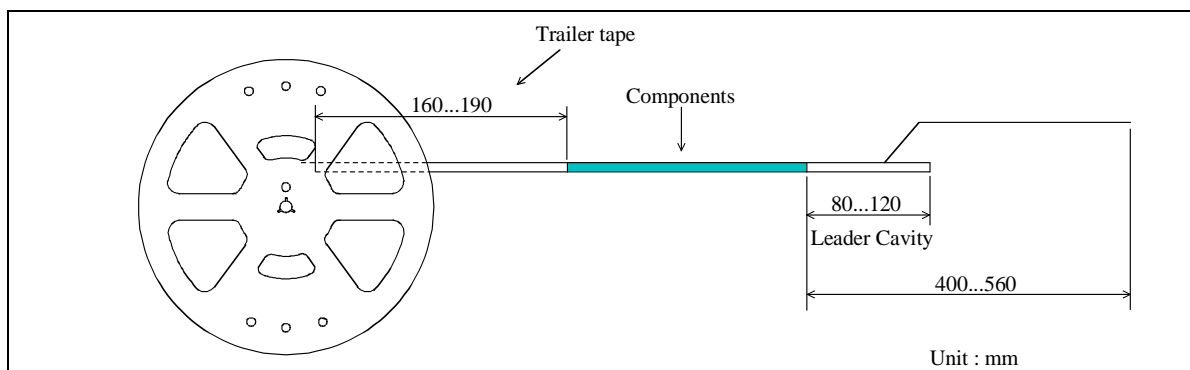
SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00

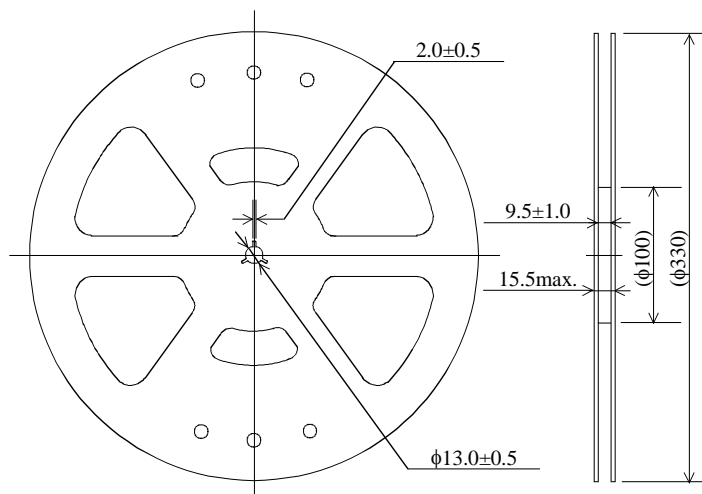
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAYEV836MAC0F00R00 ... 10000pcs/reel
SAYEV836MAC0F00R05 ... 5000pcs/reel

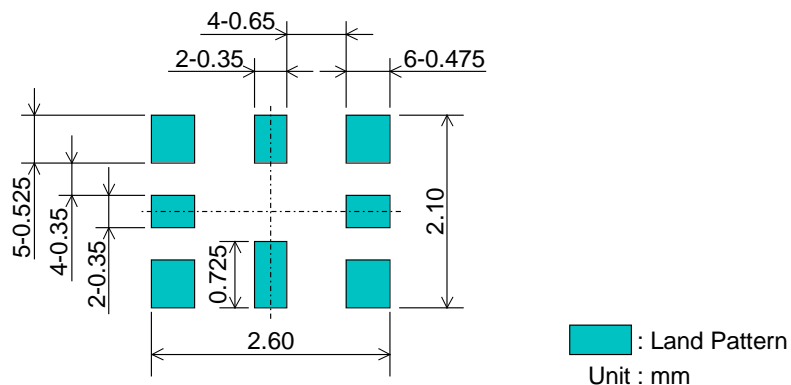
Unit: mm

SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00

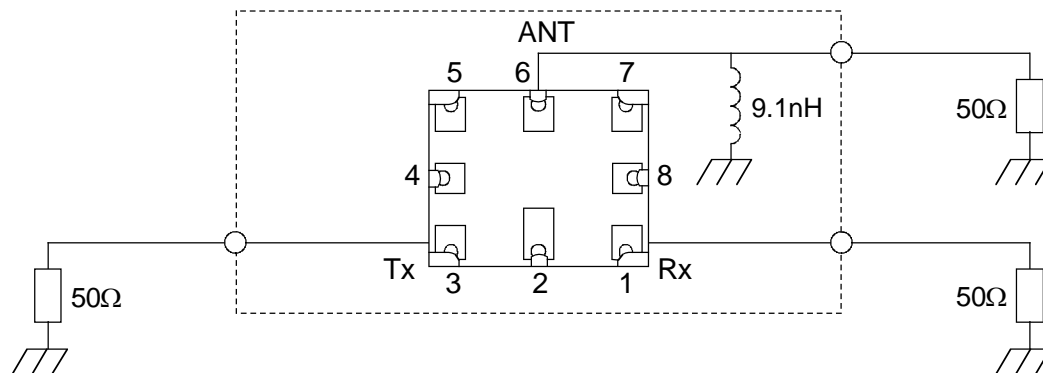
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW DPX FOR CDMA800/UMTS BC5 LR type

Murata part number :SAYEV836MAC0F00

■ 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.