



Data Sheet of SAW Components



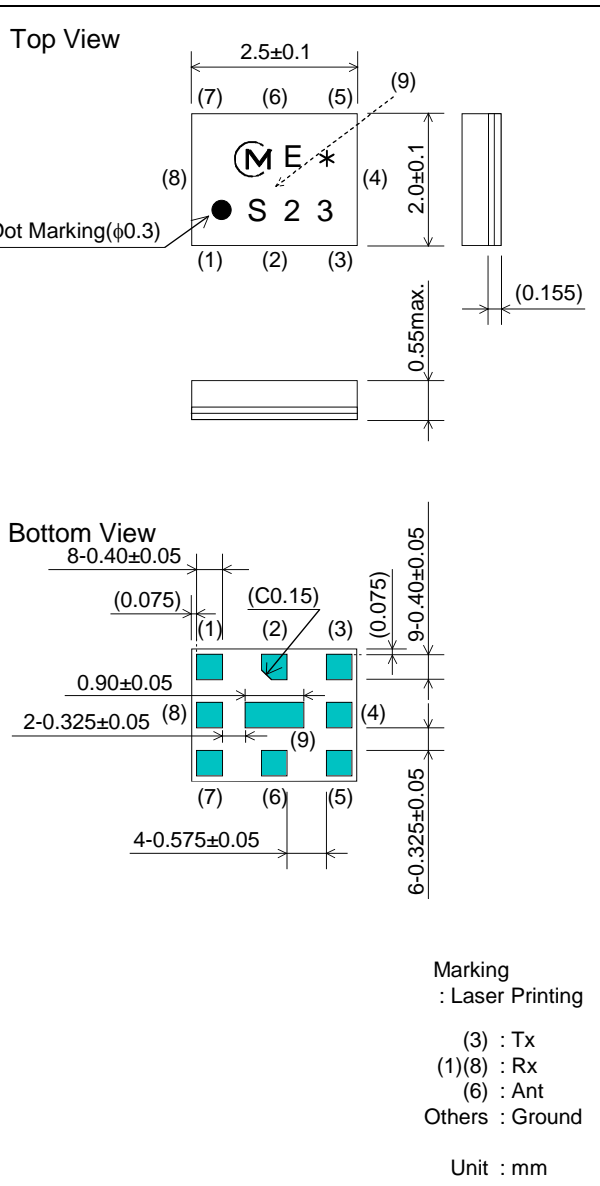
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.
Please also read caution at the end of this document.

SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

[Tx → ANT]

Package Dimensions



Specification

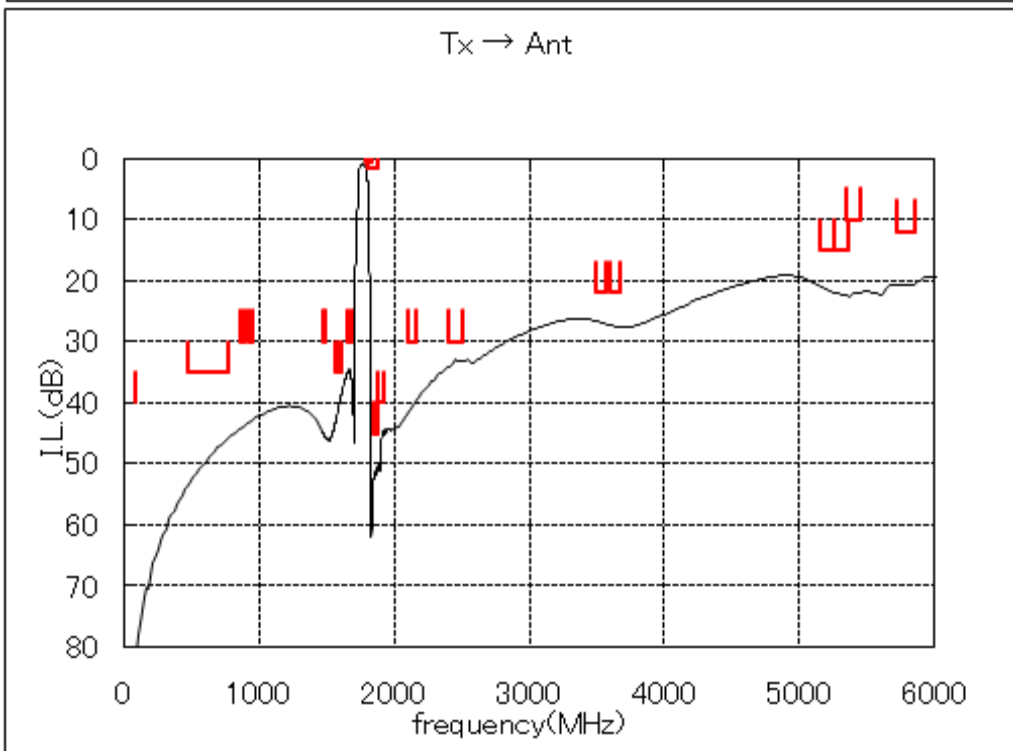
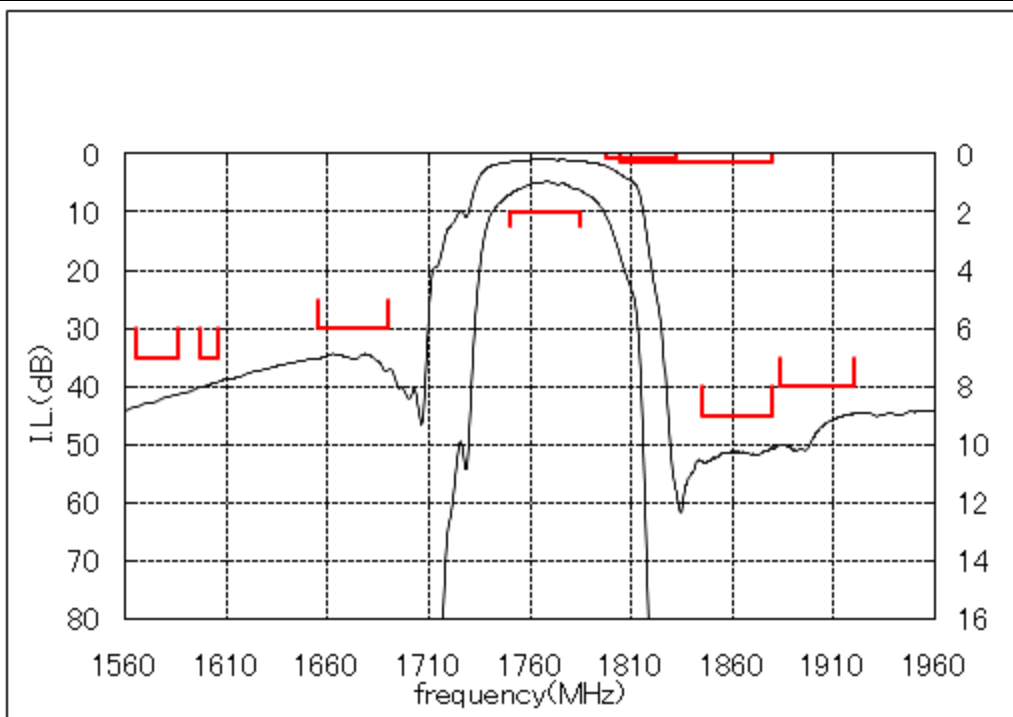
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1767.4MHz		
Insertion Loss (1749.9 to 1784.9MHz)	1.8dB max.	1.8dB max.	1.5 dB
Absolute Attenuation			
1) 95 to 95 MHz	40 dB min.	40 dB min.	80 dB
2) 470 to 770 MHz	35 dB min.	35 dB min.	45 dB
3) 860 to 895 MHz	30 dB min.	30 dB min.	43 dB
4) 925 to 960 MHz	30 dB min.	30 dB min.	42 dB
5) 1475.9 to 1495.9 MHz	30 dB min.	30 dB min.	44 dB
6) 1565 to 1586 MHz	35 dB min.	35 dB min.	41 dB
7) 1597 to 1606 MHz	35 dB min.	35 dB min.	39 dB
8) 1654.9 to 1689.9 MHz	30 dB min.	30 dB min.	34 dB
9) 1797.4 to 1832.4 MHz	0.7 dB min.	0.7 dB min.	2 dB
10) 1805 to 1880 MHz	1.5 dB min.	1.5 dB min.	3 dB
11) 1844.9 to 1879.9 MHz	45 dB min.	45 dB min.	50 dB
12) 1884 to 1920 MHz	40 dB min.	40 dB min.	44 dB
13) 2110 to 2170 MHz	30 dB min.	30 dB min.	40 dB
14) 2400 to 2500 MHz	30 dB min.	30 dB min.	33 dB
15) 3499.8 to 3569.8 MHz	22 dB min.	22 dB min.	26 dB
16) 3594.8 to 3664.8 MHz	22 dB min.	22 dB min.	26 dB
17) 5150 to 5249.7 MHz	15 dB min.	15 dB min.	21 dB
18) 5249.7 to 5354.7 MHz	15 dB min.	15 dB min.	21 dB
19) 5344.7 to 5449.7 MHz	10 dB min.	10 dB min.	21 dB
20) 5725 to 5850 MHz	12 dB min.	12 dB min.	19 dB
21) 6999.6 to 7139.6 MHz	10 dB min.	10 dB min.	17 dB
22) 8749.5 to 8924.5 MHz	10 dB min.	10 dB min.	17 dB
23) 10499.4 to 10709.4 MHz	5 dB min.	5 dB min.	9 dB
24) 12249.3 to 12494.3 MHz	2 dB min.	2 dB min.	5 dB
Ripple Deviation (1749.9 to 1784.9MHz)	1.3dB max.	1.3dB max.	0.6 dB
VSWR			
1749.9 to 1784.9MHz (Tx)	2.0 max.	2.0 max.	1.3
1749.9 to 1784.9MHz (ANT)	2.0 max.	2.0 max.	1.3
ANT Port Matching Impedance(nominal)	50Ω//3.9nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	100Ω//16nH		
Input Signal Level	1.0W, 50000 hours (50°C)		

SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

[Tx → ANT]

Frequency Performance



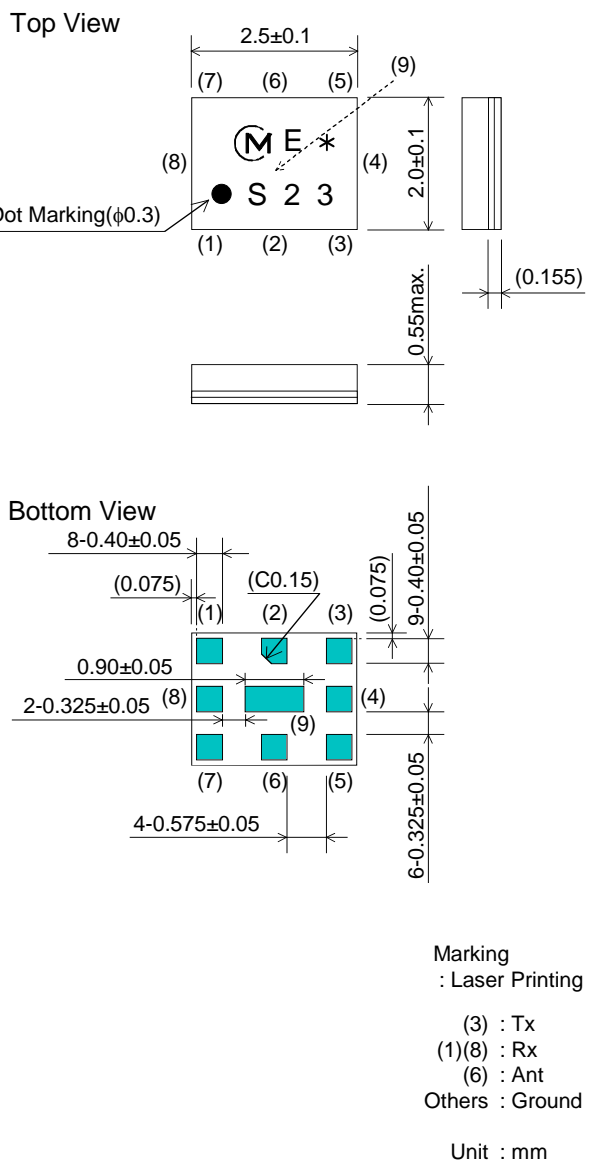
SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

[ANT → Rx]

Package Dimensions

Specification



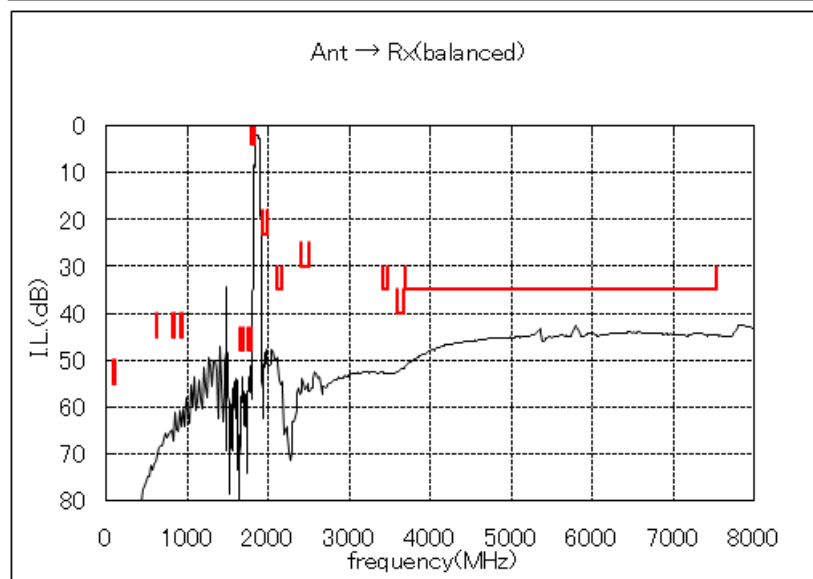
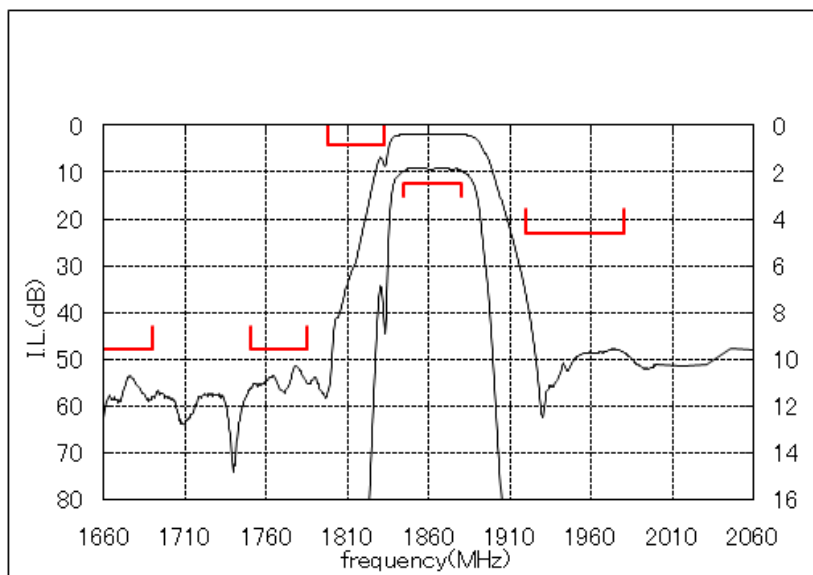
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1862.4MHz		
Insertion Loss (1844.9 to 1879.9MHz)	2.5dB max.	2.3dB max.	2.0 dB
Absolute Attenuation			
1) 90 to 100 MHz	55 dB min.	55 dB min.	100 dB
2) 615 to 626.6 MHz	45 dB min.	45 dB min.	68 dB
3) 824 to 849 MHz	45 dB min.	45 dB min.	61 dB
4) 922.5 to 940 MHz	45 dB min.	45 dB min.	59 dB
5) 1654.9 to 1689.9 MHz	48 dB min.	48 dB min.	53 dB
6) 1749.9 to 1784.9 MHz	48 dB min.	48 dB min.	51 dB
7) 1797.4 to 1832.4 MHz	4 dB min.	4 dB min.	7 dB
8) 1920 to 1980 MHz	23 dB min.	23 dB min.	32 dB
9) 2110 to 2170 MHz	35 dB min.	35 dB min.	48 dB
10) 2400 to 2500 MHz	30 dB min.	30 dB min.	54 dB
11) 3404.8 to 3474.8 MHz	35 dB min.	35 dB min.	53 dB
12) 3594.8 to 3664.8 MHz	40 dB min.	40 dB min.	41 dB
13) 3689.8 to 7520 MHz	35 dB min.	35 dB min.	43 dB
14) 9215 to 9410 MHz	25 dB min.	25 dB min.	40 dB
Ripple Deviation (1844.9 to 1879.9MHz)	1.0 dB max.	1.0 dB max.	0.3 dB
Amplitude Balance (1844.9 to 1879.9MHz)	±1.5dB max.	±1.5dB max.	1.1
Phase Balance (1844.9 to 1879.9MHz)	180±13deg. max.	180±13deg. max.	180+7deg.
VSWR			
1844.9 to 1879.9MHz (ANT)	2.0 max.	2.0 max.	1.4
1844.9 to 1879.9MHz (Rx)	2.0 max.	2.0 max.	1.4
ANT Port Matching Impedance(nominal)	50Ω//3.9nH		
Tx Port Matching Impedance(nominal)	50Ω		
Rx Port Matching Impedance(nominal)	100Ω//16nH		

SAW DPX FOR UMTS BAND9

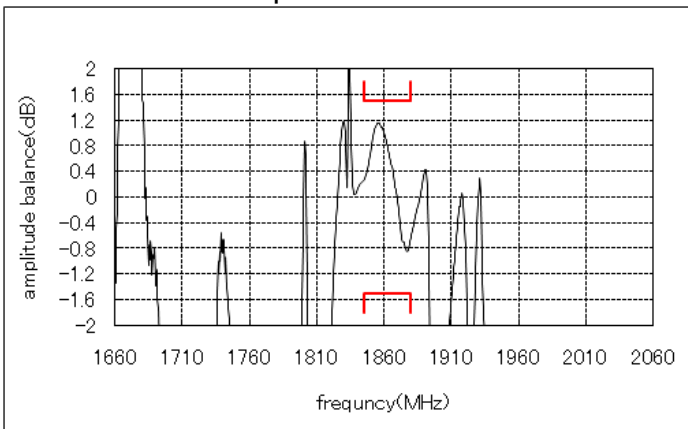
Murata part number :SAYFP1G76CA0F00

[ANT → Rx]

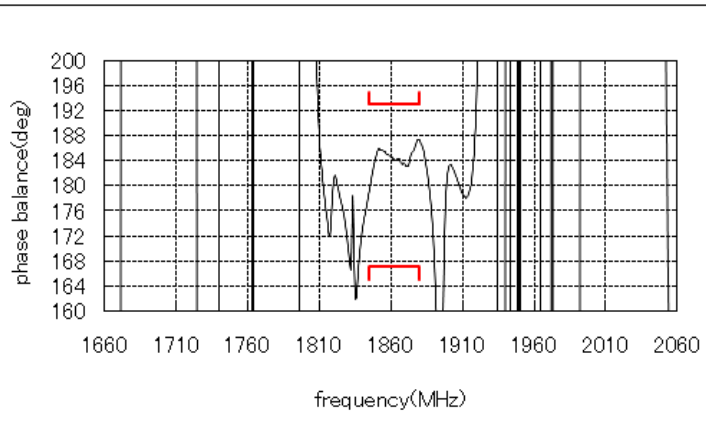
Frequency Performance



Amplitude balance



Phase balance



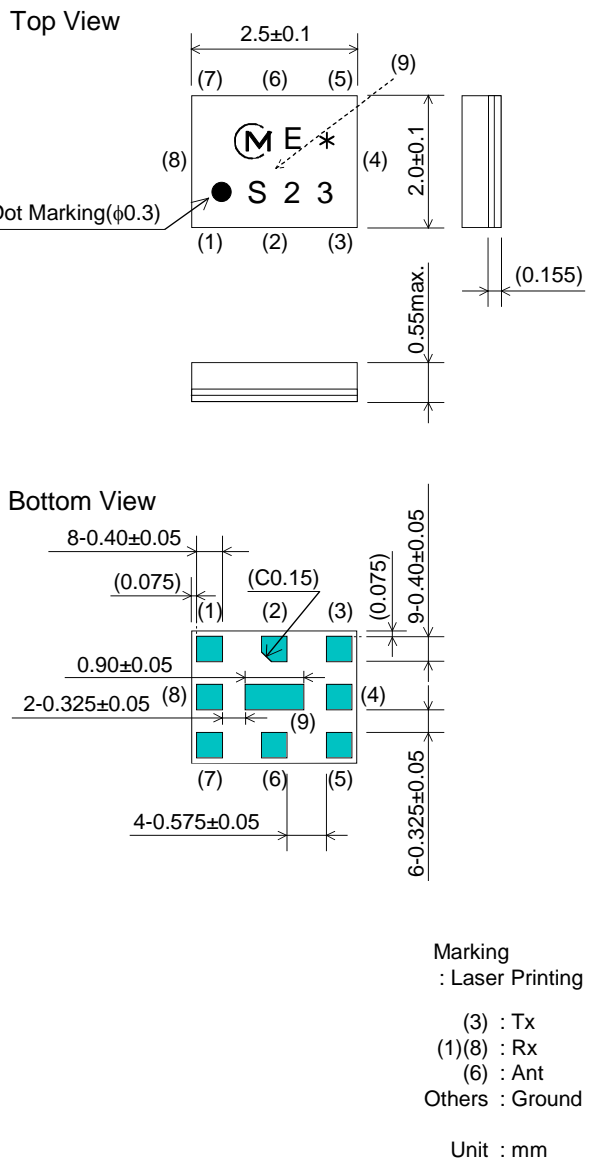
SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

[Tx → Rx]

Package Dimensions

Specification



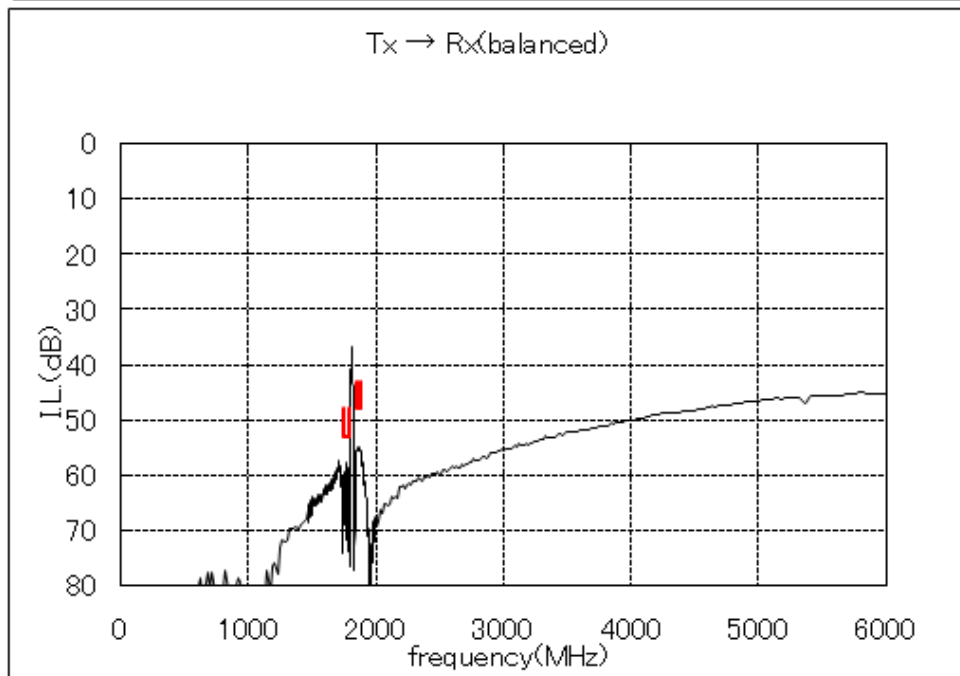
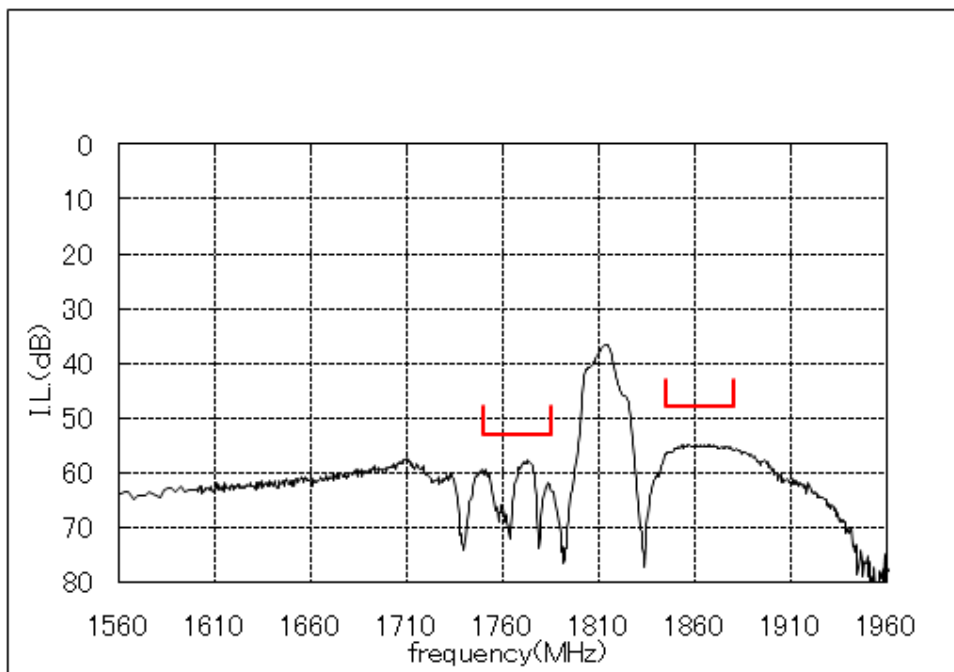
Item	Specification		
	-30to 85°C	25±2°C	typ.
Isolation			
1) 1749.9 to 1784.9 MHz	53 dB min.	53 dB min.	57 dB
2) 1844.9 to 1879.9 MHz	48 dB min.	48 dB min.	54 dB

SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

[Tx → Rx]

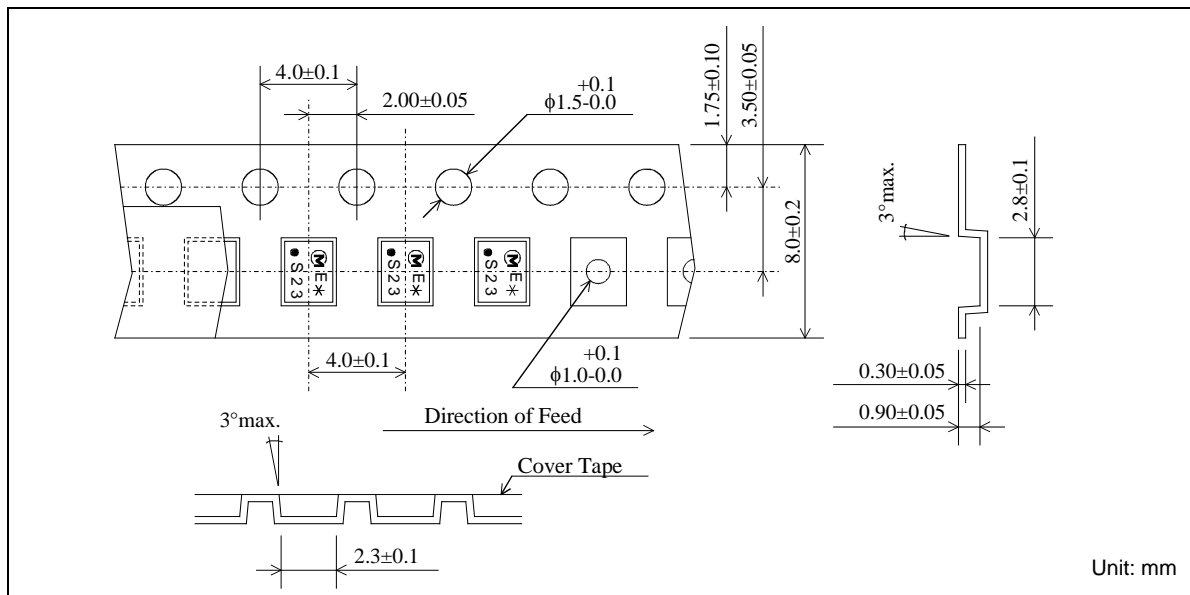
Frequency Performance



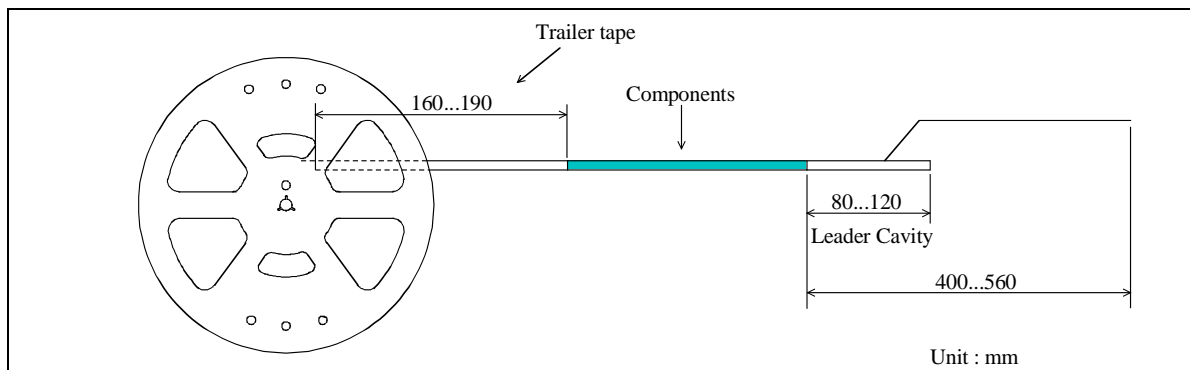
SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

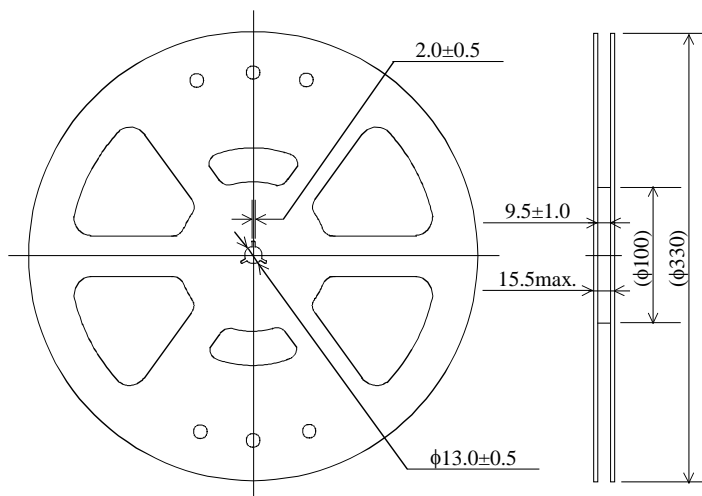
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



Unit: mm

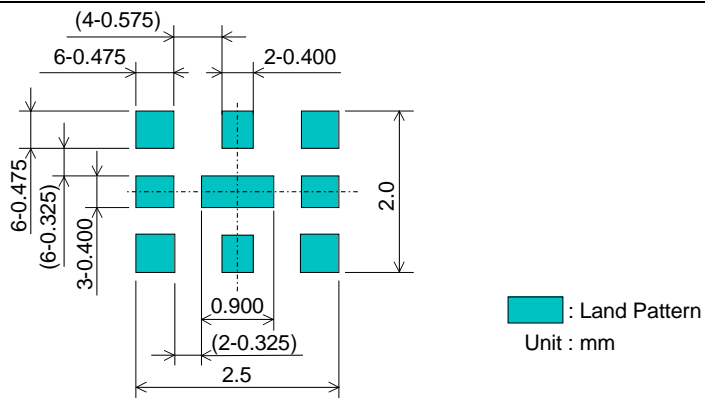
SAYFP1G76CA0F00R00 ... 10000pcs/reel
SAYFP1G76CA0F00R05 ... 5000pcs/reel

SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

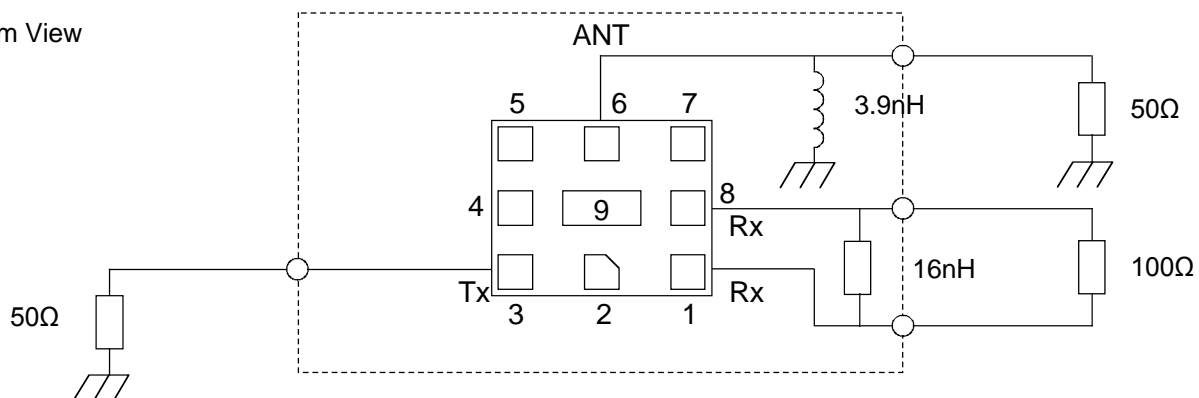
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW DPX FOR UMTS BAND9

Murata part number :SAYFP1G76CA0F00

■ 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.