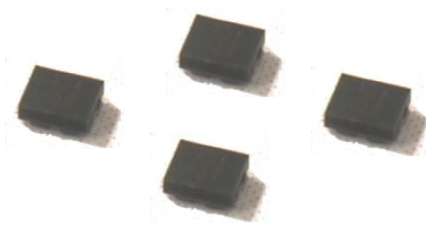




Data Sheet of SAW Components



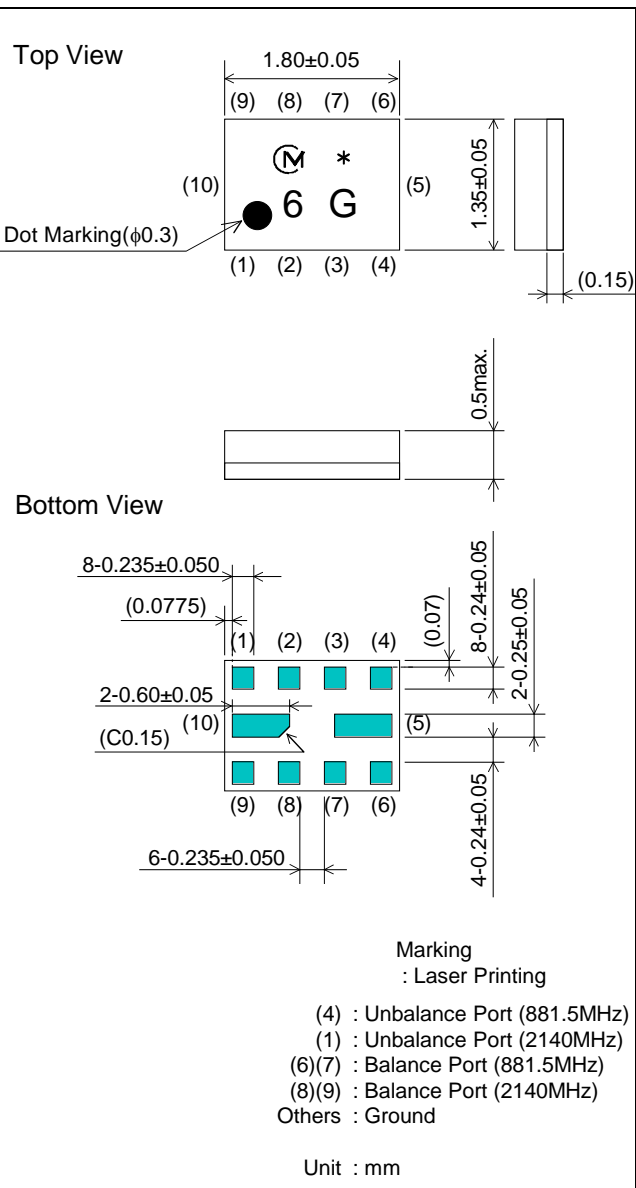
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00 (fc=881.5MHz)

Package Dimensions



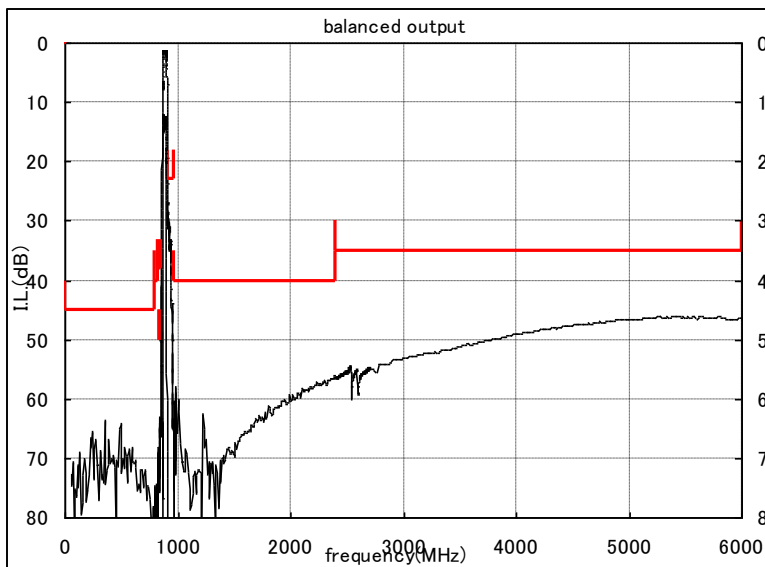
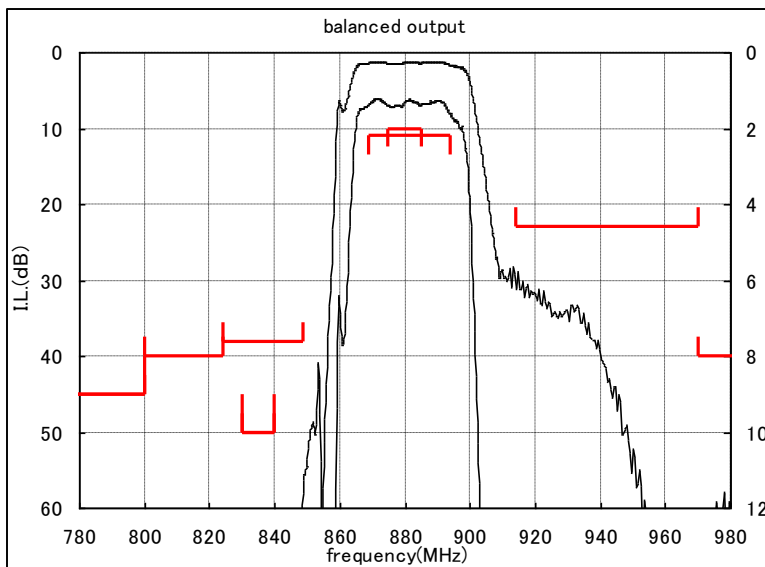
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	881.5MHz		
Insertion Loss (869 to 894MHz)	2.2 dB max.	2.0 dB max.	1.7 dB
(875 to 885MHz)	2.0 dB max.	1.8 dB max.	1.5 dB
Absolute Attenuation			
1) 0.1 to 800 MHz	45 dB min.	45 dB min.	64 dB
2) 800 to 824 MHz	40 dB min.	40 dB min.	72 dB
3) 824 to 849 MHz	38 dB min.	38 dB min.	56 dB
4) 830 to 840 MHz	50 dB min.	50 dB min.	62 dB
5) 914 to 970 MHz	23 dB min.	23 dB min.	29 dB
6) 970 to 2400 MHz	40 dB min.	40 dB min.	57 dB
7) 2400 to 6000 MHz	35 dB min.	35 dB min.	46 dB
Ripple Deviation (869 to 894MHz)	1.2dB max.	1.2dB max.	0.5 dB
VSWR (869 to 894MHz)	2.0 max.	2.0 max.	1.6
Amplitude Balance (869 to 894MHz)	±1.0dB max.	±1.0dB max.	-0.2dB
Phase Balance (869 to 894MHz)	180±10deg. max.	180±10deg. max.	180-2deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	200Ω		
Input Signal Level	31.6mW (+15dBm), 2000 hours		

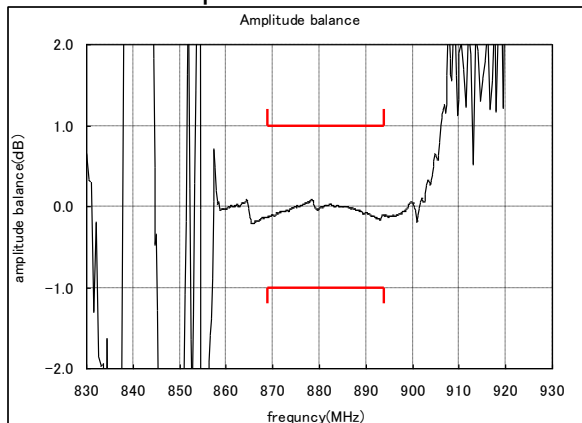
SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00 (fc=881.5MHz)

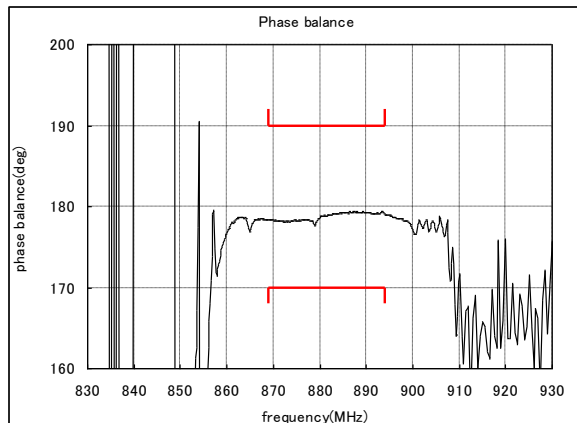
Frequency Performance



Amplitude balance



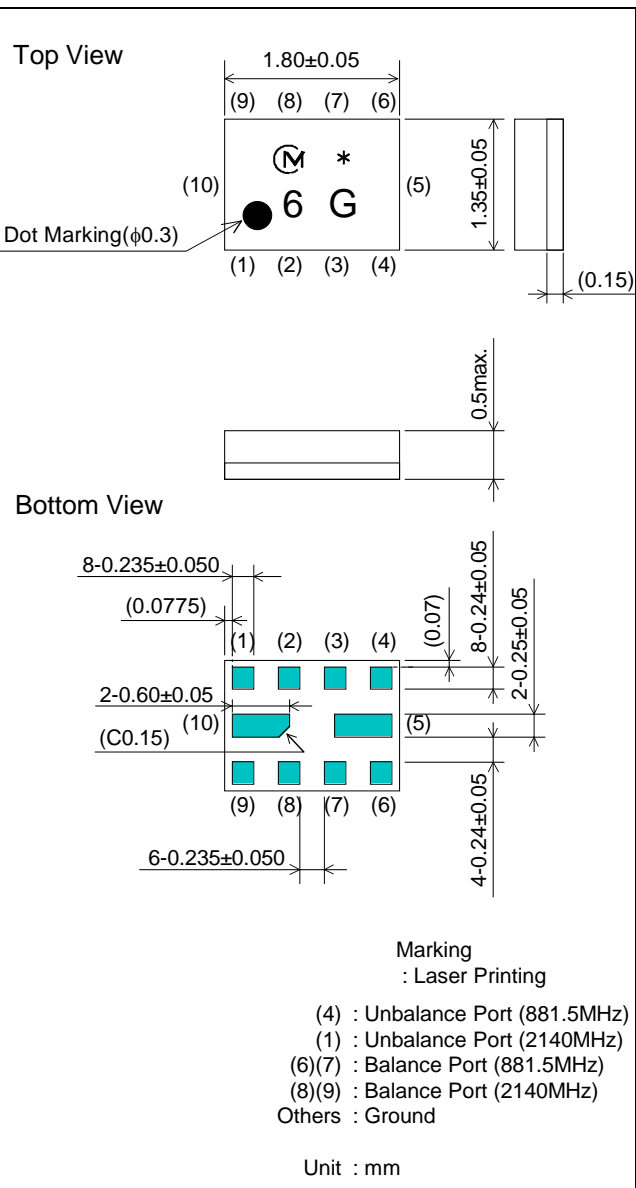
Phase balance



SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00 (fc=2140MHz)

Package Dimensions



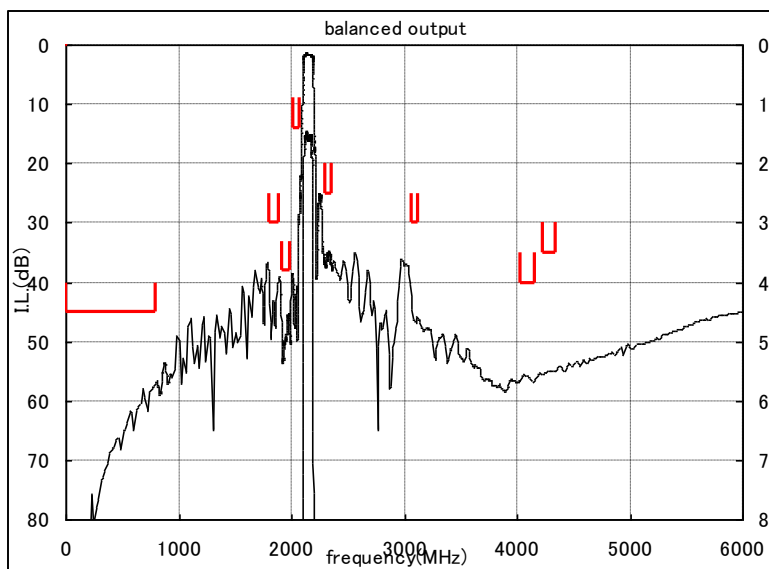
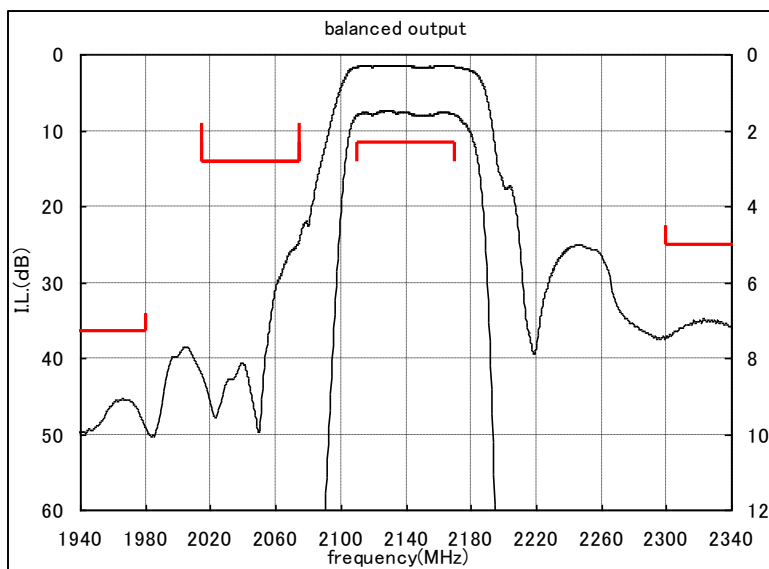
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	2140MHz		
Insertion Loss (2110 to 2170MHz)	2.3 dB max.	2.1 dB max.	1.6 dB
Absolute Attenuation			
1) 0.1 to 800 MHz	45 dB min.	45 dB min.	58 dB
2) 1805 to 1880 MHz	30 dB min.	30 dB min.	40 dB
3) 1920 to 1980 MHz	38 dB min.	38 dB min.	50 dB
4) 2015 to 2075 MHz	14 dB min.	14 dB min.	21 dB
5) 2300 to 2360 MHz	25 dB min.	25 dB min.	40 dB
6) 3060 to 3120 MHz	30 dB min.	30 dB min.	42 dB
7) 4030 to 4150 MHz	40 dB min.	40 dB min.	50 dB
8) 4220 to 4340 MHz	35 dB min.	35 dB min.	50 dB
Ripple Deviation (2110 to 2170MHz)	1.5dB max.	1.5dB max.	0.5 dB
VSWR (2110 to 2170MHz)	2.0 max.	2.0 max.	1.5
Amplitude Balance (2110 to 2170MHz)	±1.3dB max.	±1.3dB max.	-0.9dB
Phase Balance (2110 to 2170MHz)	180±10deg. max.	180±10deg. max.	180+6deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	200Ω//18nH		
Input Signal Level	20mW (+13dBm), 2000 hours		

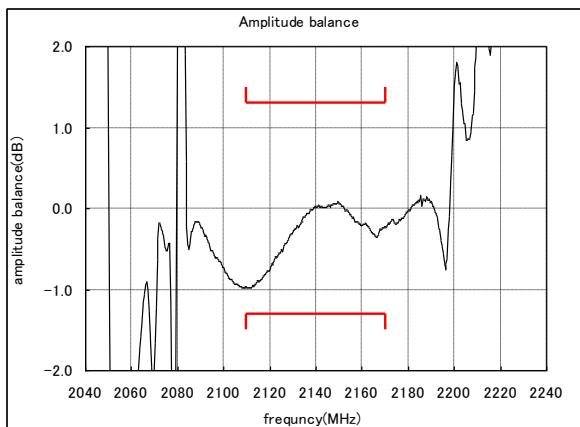
SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00 (fc=2140MHz)

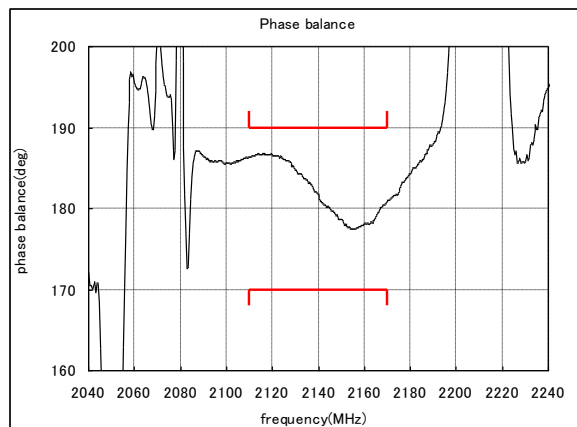
Frequency Performance



Amplitude balance



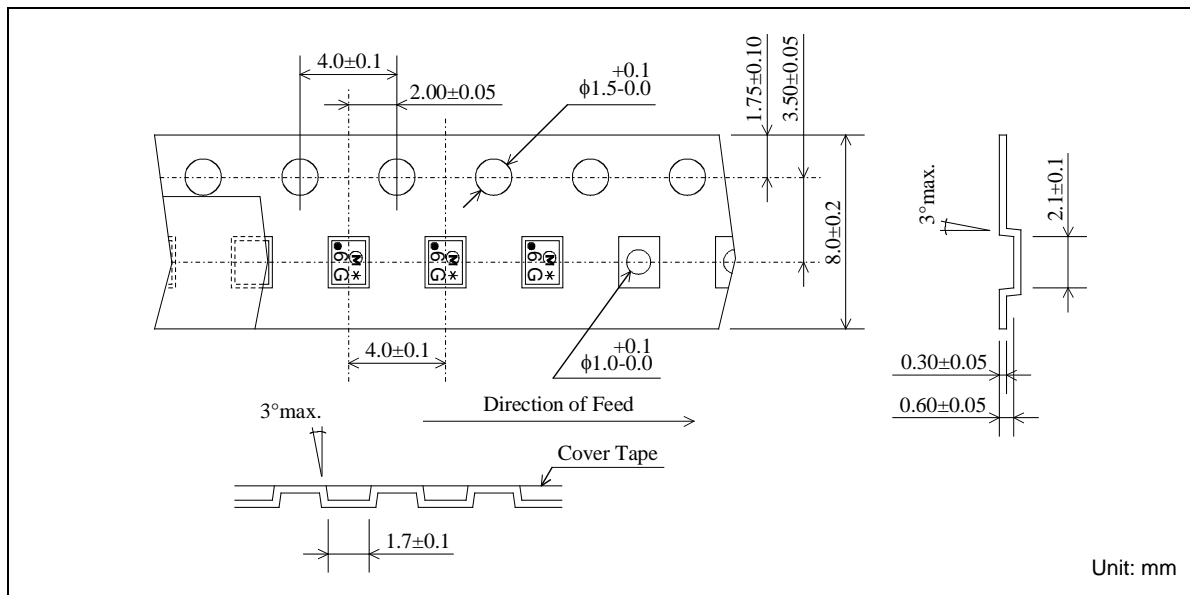
Phase balance



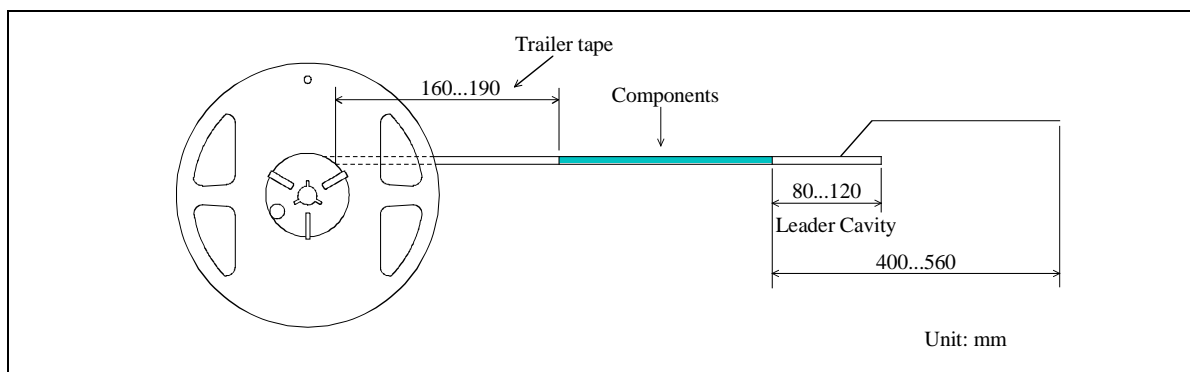
SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00

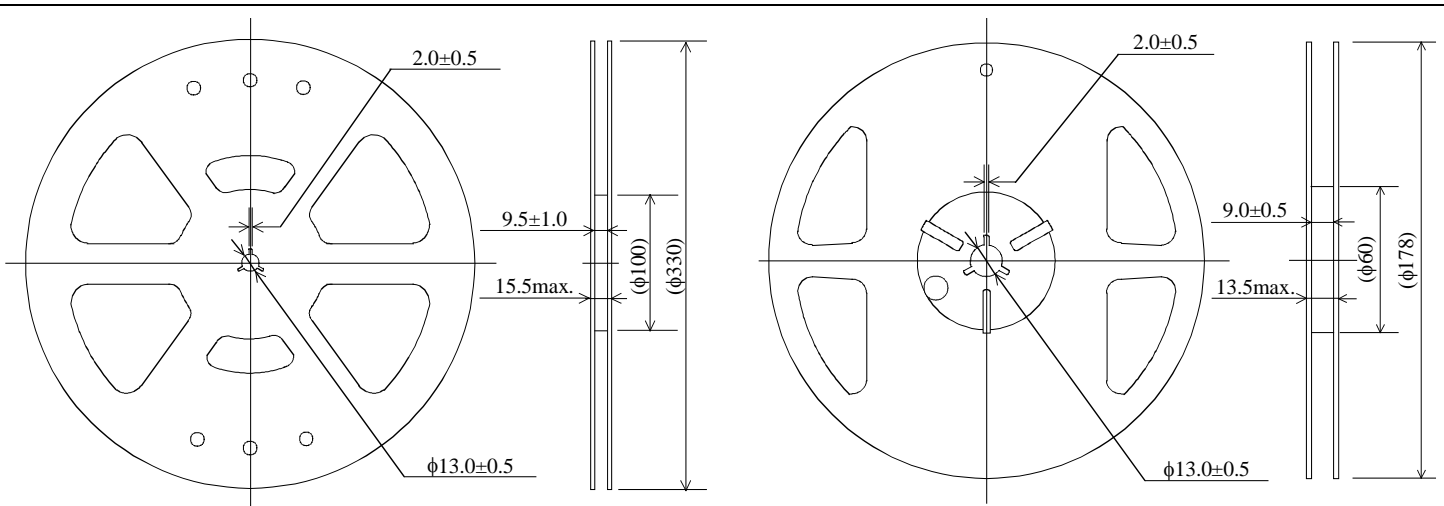
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAWEN881MCL5F00R00 ... 10000pcs/reel

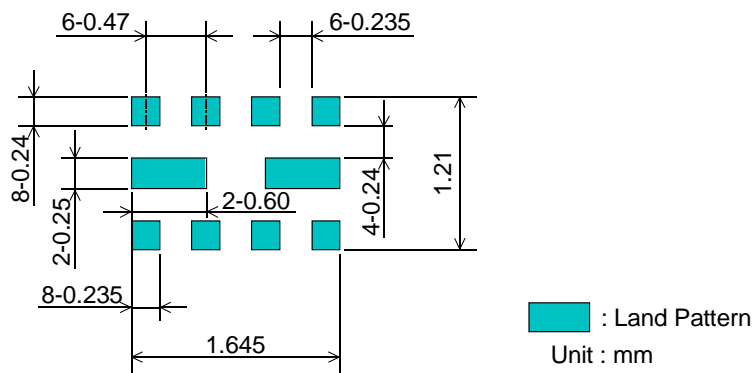
SAWEN881MCL5F00R15 ... 5000pcs/reel

SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00

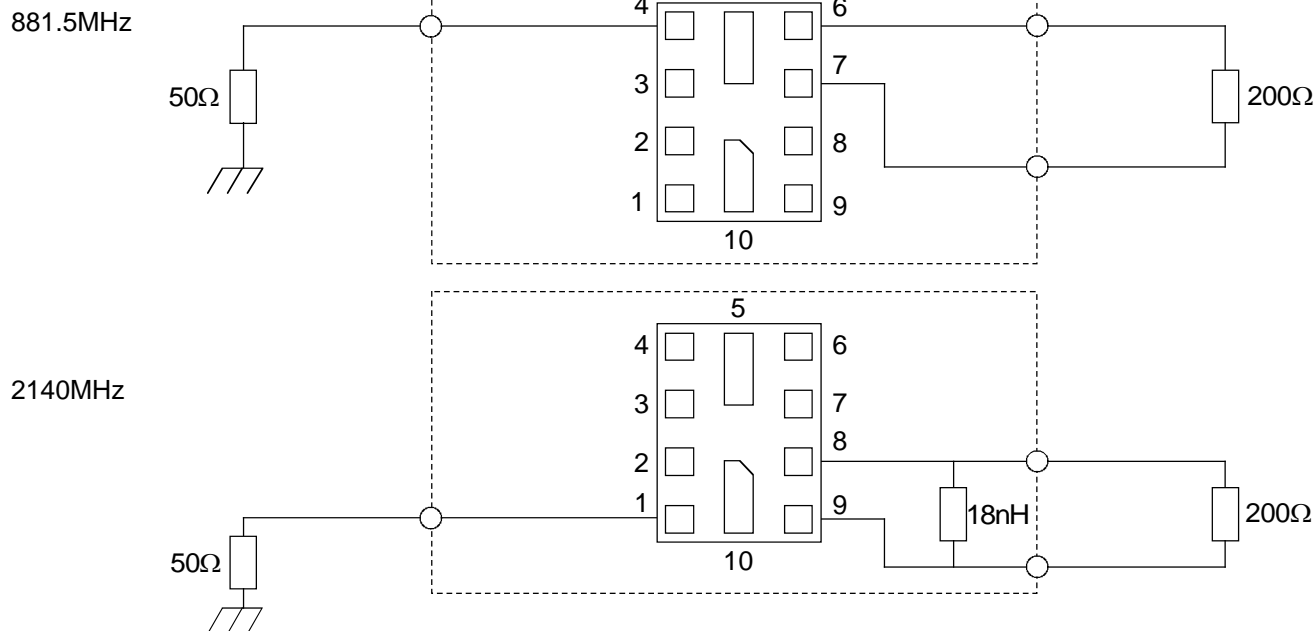
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW FILTER FOR UMTS(W-CDMA) BAND1/5

Murata part number :SAWEN881MCL5F00

■ 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.