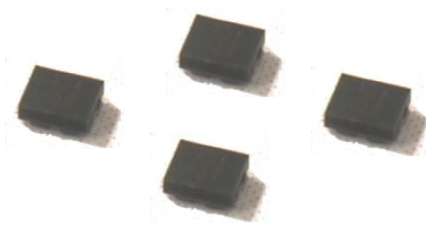




Data Sheet of SAW Components



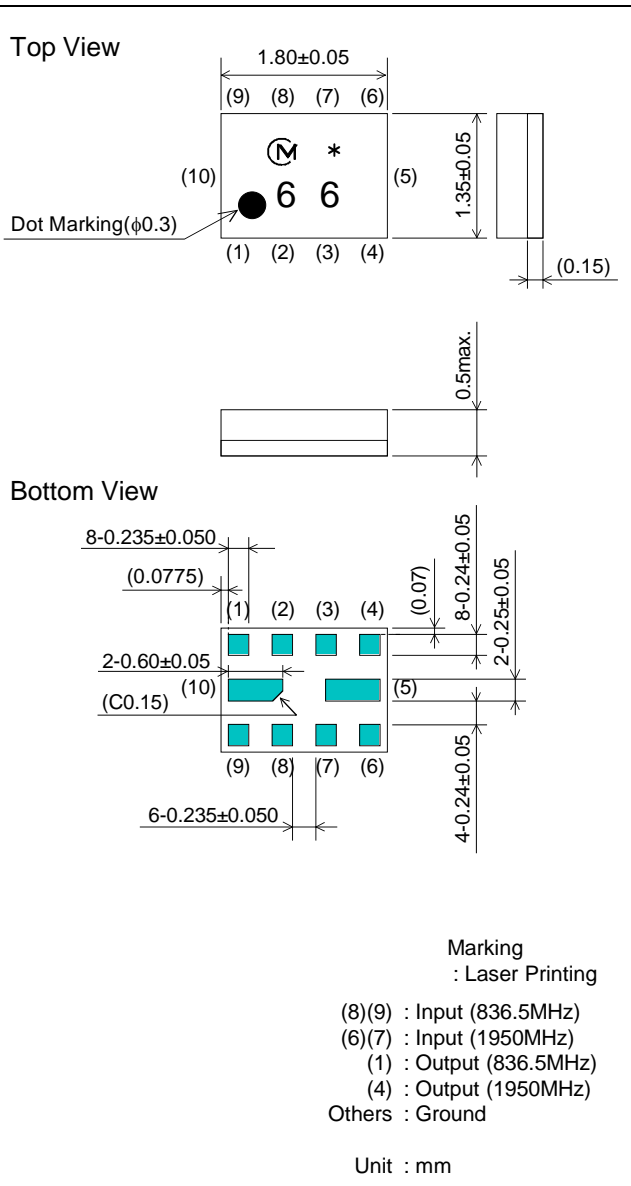
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00 (fc=836.5MHz)

Package Dimensions



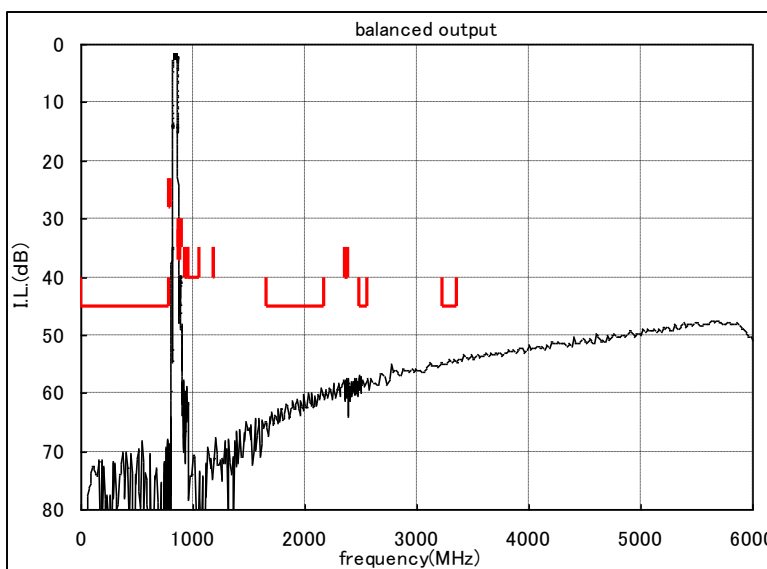
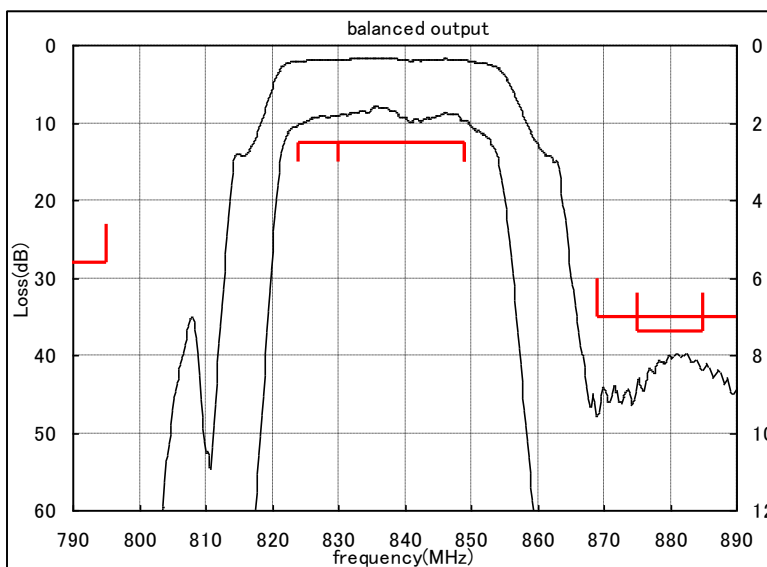
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	836.5MHz		
Insertion Loss (824 to 849MHz)	2.5 dB max.	2.3 dB max.	2.2 dB
	(830 to 840MHz)	2.5 dB max.	2.3 dB max.
Absolute Attenuation			
1) 0.1 to 785 MHz	45 dB min.	45 dB min.	67 dB
2) 785 to 795 MHz	28 dB min.	28 dB min.	66 dB
3) 875 to 885 MHz	37 dB min.	37 dB min.	40 dB
4) 869 to 894 MHz	35 dB min.	35 dB min.	40 dB
5) 925 to 960 MHz	40 dB min.	40 dB min.	59 dB
6) 960 to 1050 MHz	40 dB min.	40 dB min.	70 dB
7) 1180 to 1190 MHz	40 dB min.	40 dB min.	67 dB
8) 1660 to 2170 MHz	45 dB min.	45 dB min.	59 dB
9) 2360 to 2380 MHz	40 dB min.	40 dB min.	57 dB
10) 2490 to 2550 MHz	45 dB min.	45 dB min.	57 dB
11) 3230 to 3360 MHz	45 dB min.	45 dB min.	54 dB
Ripple Deviation (824 to 849MHz)	1.2dB max.	1.2dB max.	0.7 dB
VSWR (824 to 849MHz)	2.0 max.	2.0 max.	1.7
Amplitude Balance (824 to 849MHz)	±1.0dB max.	±1.0dB max.	+0.1dB
Phase Balance (824 to 849MHz)	180±10deg. max.	180±10deg. max.	180+2deg.
Input Impedance (nominal)	200Ω		
Output Impedance (nominal)	50Ω		
Input Signal Level	20mW (+13dBm), 2000 hours		

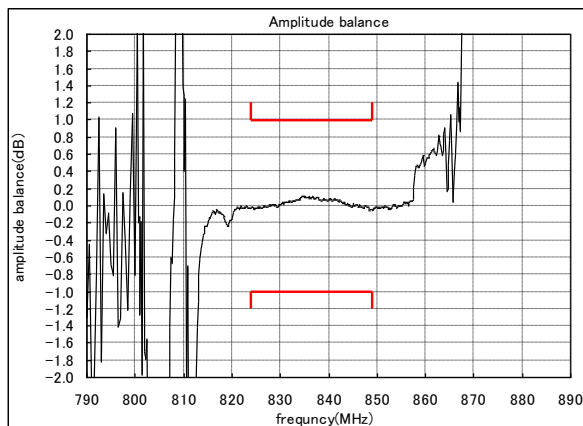
SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00 (fc=836.5MHz)

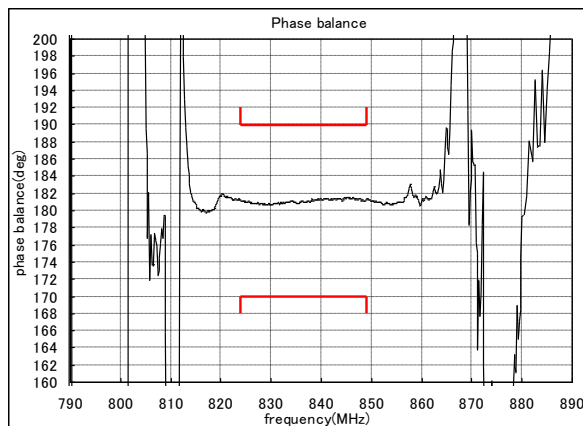
Frequency Performance



Amplitude balance



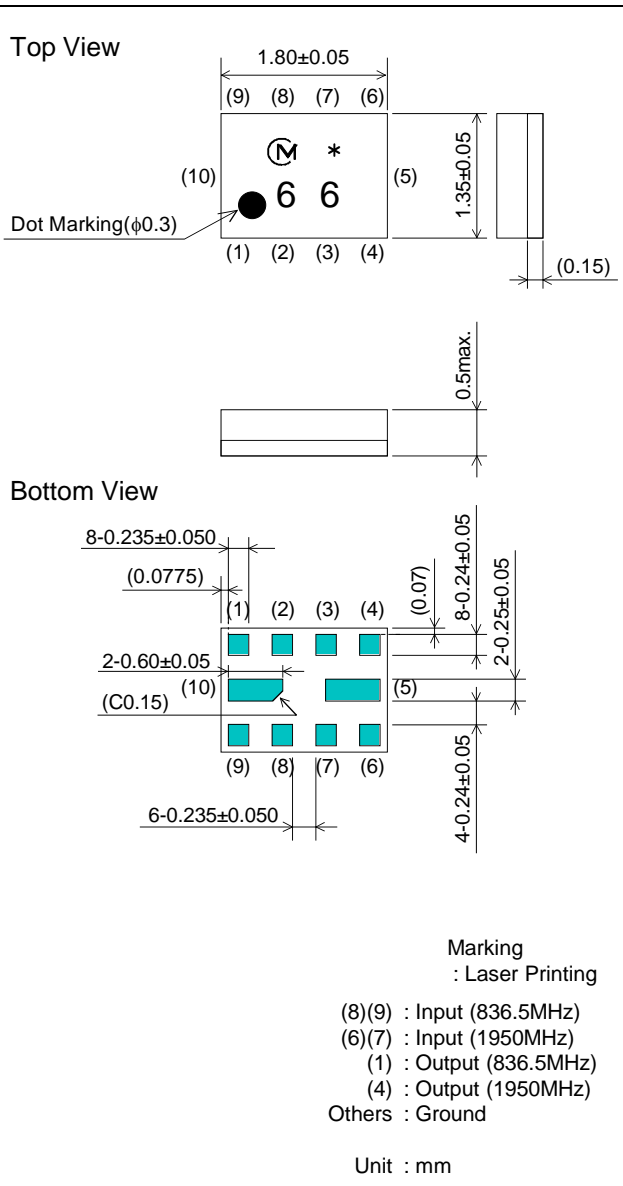
Phase balance



SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00 (fc=1950MHz)

Package Dimensions



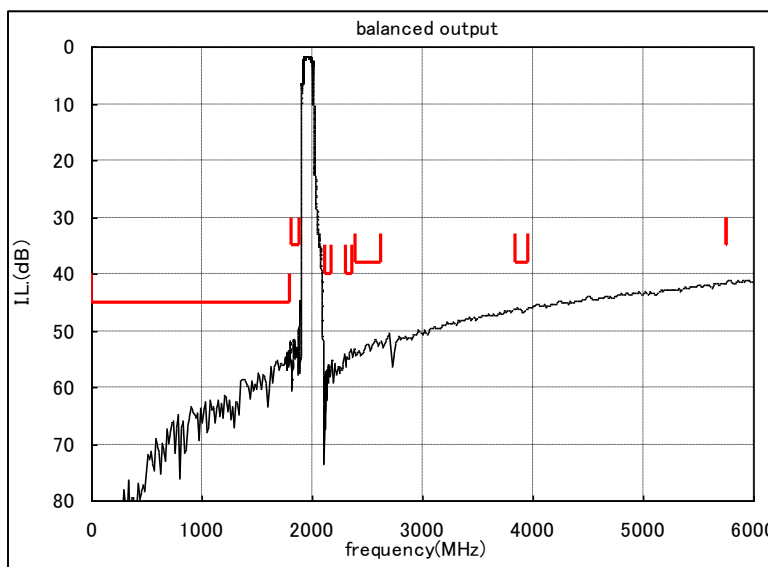
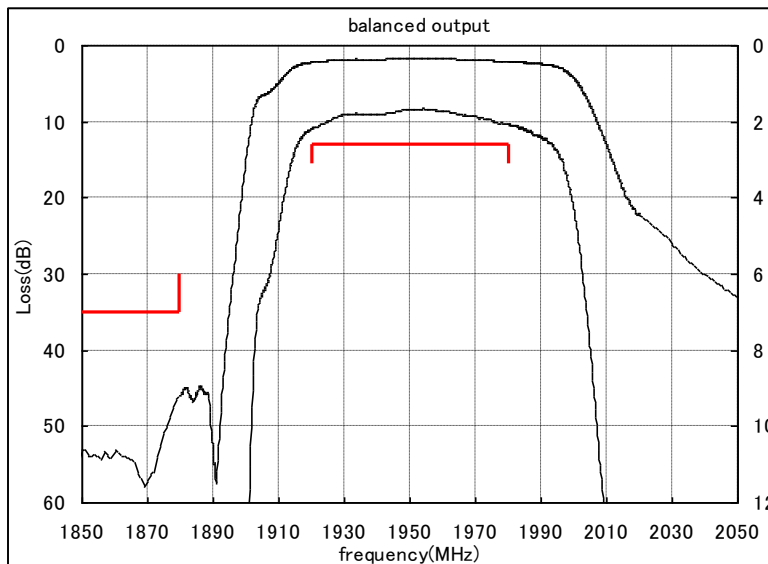
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1950MHz		
Insertion Loss (1920 to 1980MHz)	2.6 dB max.	2.4 dB max.	2.3 dB
Absolute Attenuation			
1) 0.1 to 1790 MHz	45 dB min.	45 dB min.	52 dB
2) 1805 to 1880 MHz	35 dB min.	35 dB min.	45 dB
3) 2110 to 2170 MHz	40 dB min.	40 dB min.	55 dB
4) 2300 to 2360 MHz	40 dB min.	40 dB min.	54 dB
5) 2620 to 2690 MHz	38 dB min.	38 dB min.	50 dB
6) 3840 to 3960 MHz	38 dB min.	38 dB min.	46 dB
7) 5760 to 5940 MHz	35 dB min.	35 dB min.	41 dB
Ripple Deviation (1920 to 1980MHz)	1.1dB max.	1.1dB max.	0.6 dB
VSWR (1920 to 1980MHz)	1.8 max.	1.8 max.	1.4
Amplitude Balance (1920 to 1980MHz)	±1.0dB max.	±1.0dB max.	-0.4dB
Phase Balance (1920 to 1980MHz)	180±10deg. max.	180±10deg. max.	180-7deg.
Input Impedance (nominal)	200Ω//22nH		
Output Impedance (nominal)	50Ω		
Input Signal Level	20mW (+13dBm), 2000 hours		

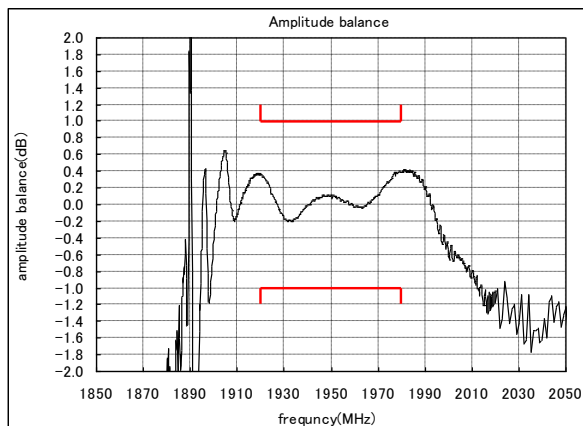
SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00 (fc=1950MHz)

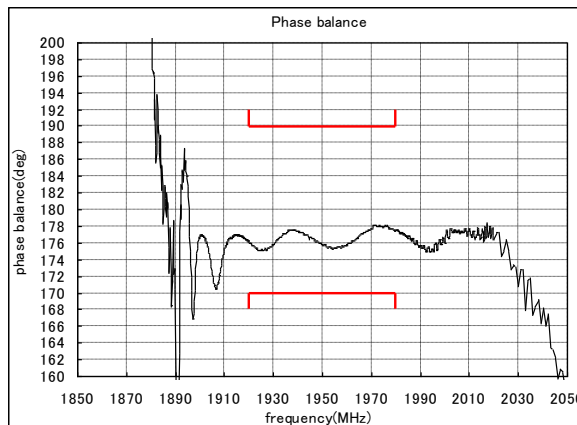
Frequency Performance



Amplitude balance



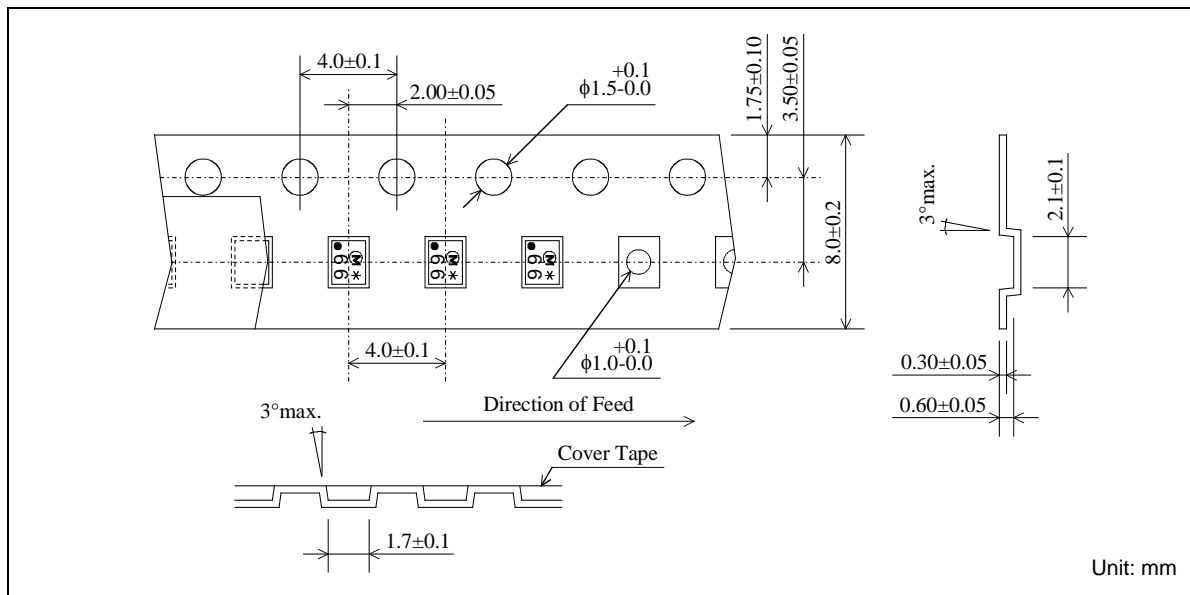
Phase balance



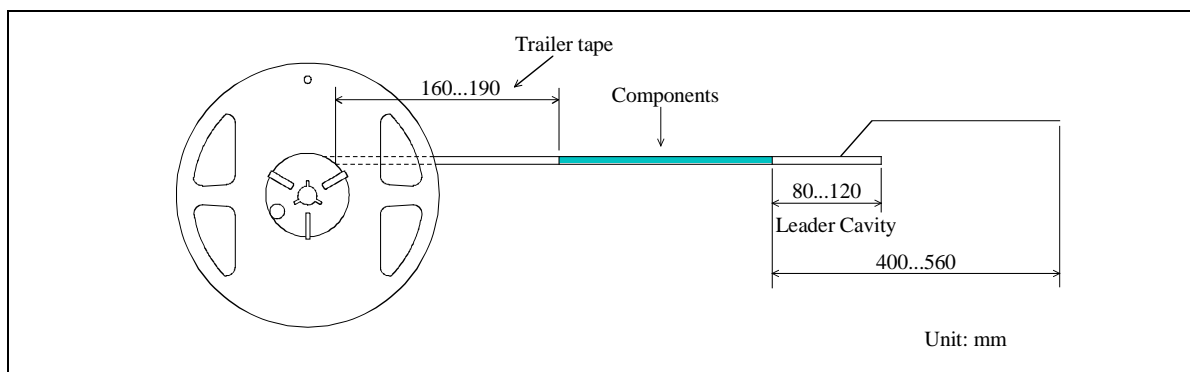
SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00

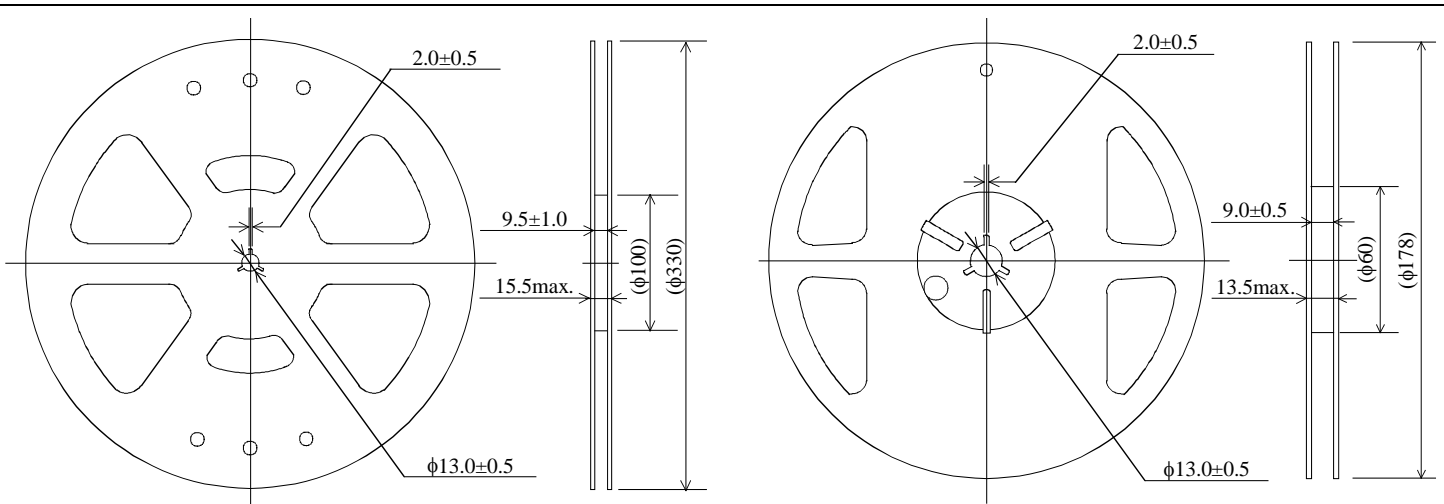
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAWEN836MCM5F00R00 ... 10000pcs/reel

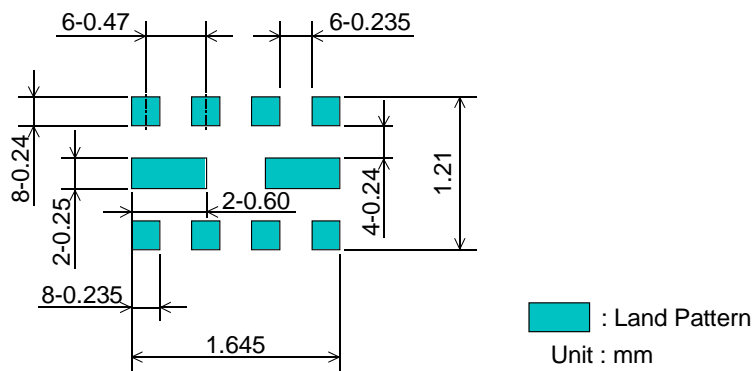
SAWEN836MCM5F00R15 ... 5000pcs/reel

SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00

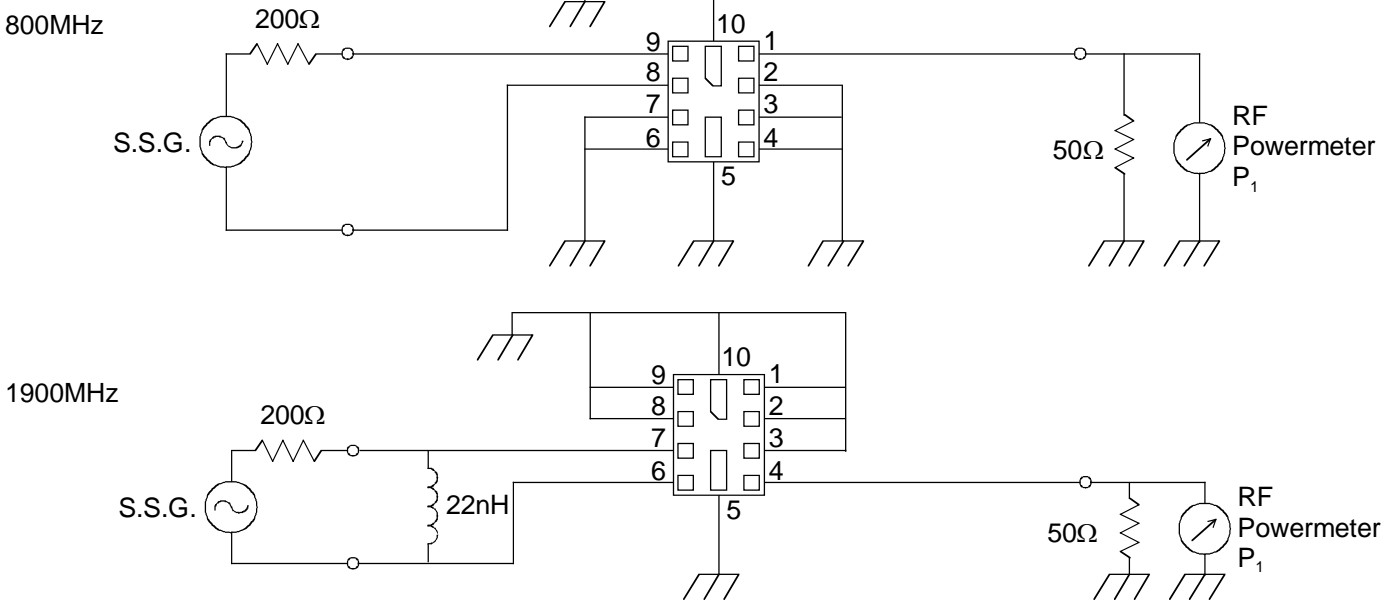
Recommended Land Pattern

Top View



Test Circuit

Bottom View



SAW FILTER FOR UMTS BC1/BC5 Tx

Murata part number :SAWEN836MCM5F00

■ 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.