



Data Sheet of SAW Components



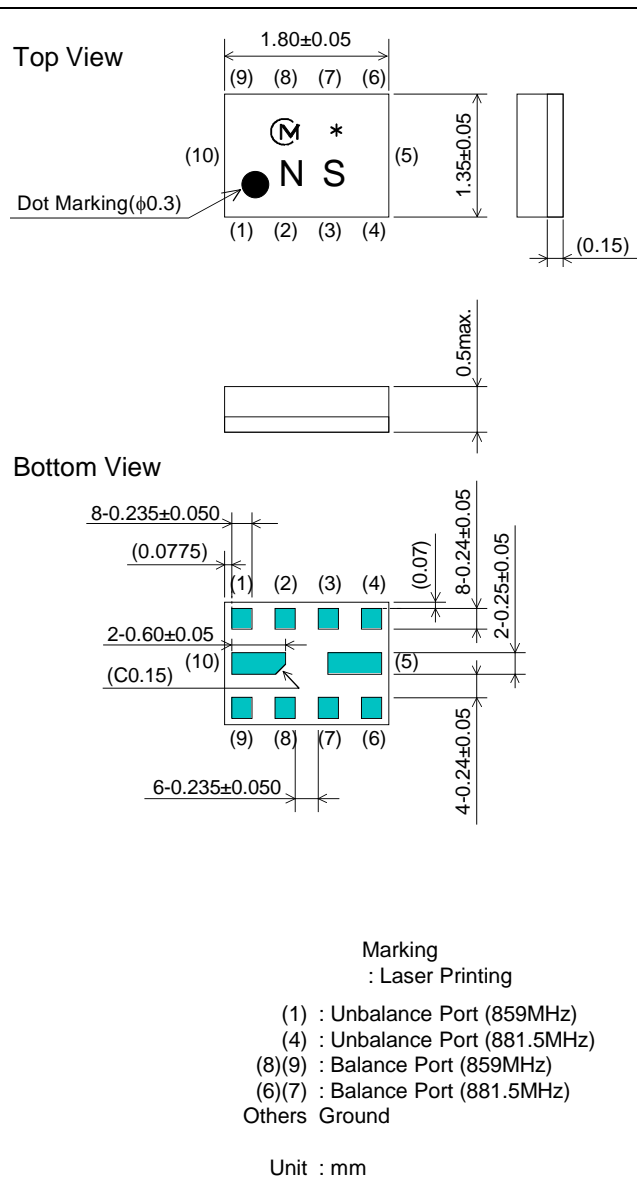
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00($f_c=859\text{MHz}$)

Package Dimensions



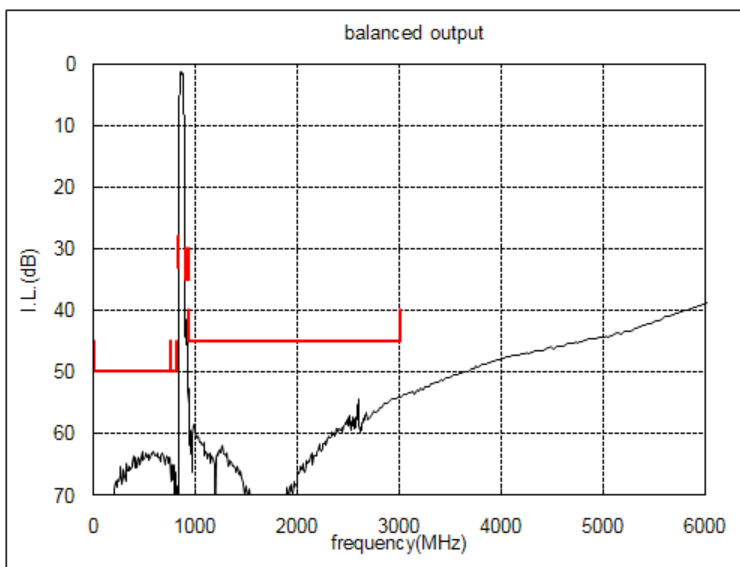
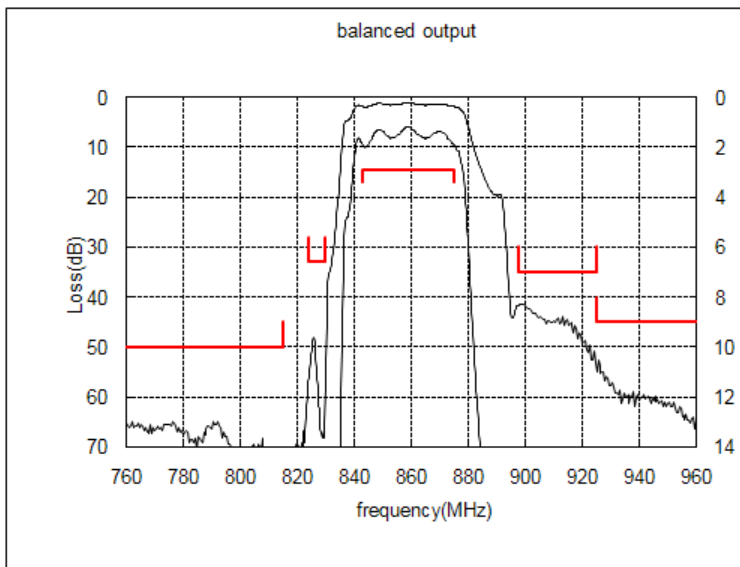
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(f_c)	859MHz		
Insertion Loss (843 to 875MHz)	2.9 dB max.	2.8 dB max.	1.9 dB
Absolute Attenuation			
1) 0.1 to 750 MHz	50 dB min.	50 dB min.	62 dB
2) 750 to 815 MHz	50 dB min.	50 dB min.	64 dB
3) 824 to 830 MHz	33 dB min.	35 dB min.	48 dB
4) 898 to 925 MHz	35 dB min.	35 dB min.	41 dB
5) 925 to 3000 MHz	45 dB min.	45 dB min.	51 dB
Ripple Deviation (843 to 875MHz)	2.0dB max.	1.8dB max.	0.8 dB
VSWR (843 to 875MHz)	2.3 max.	2.2 max.	2.0
Amplitude Balance (843 to 875MHz)	±1.0dB max.	±0.8dB max.	-0.3dB
Phase Balance (843 to 875MHz)	180±10deg. max.	180±8deg. max.	180-2.1deg.
Input Impedance (nominal)	50Ω		
Output Impedance (nominal)	100Ω		
Input Signal Level	31.6mW (+15dBm), 2000 hours		

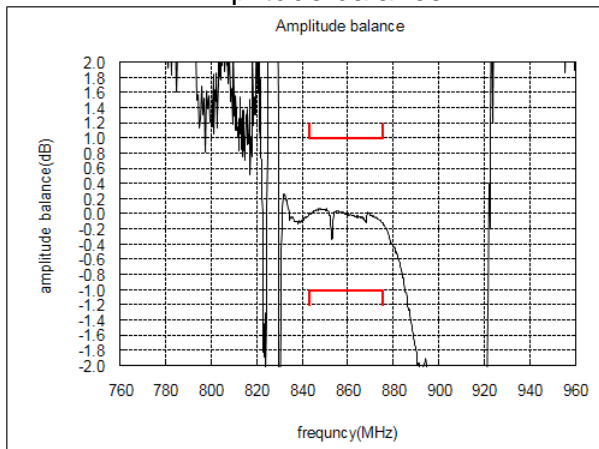
SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00 ($f_c=859\text{MHz}$)

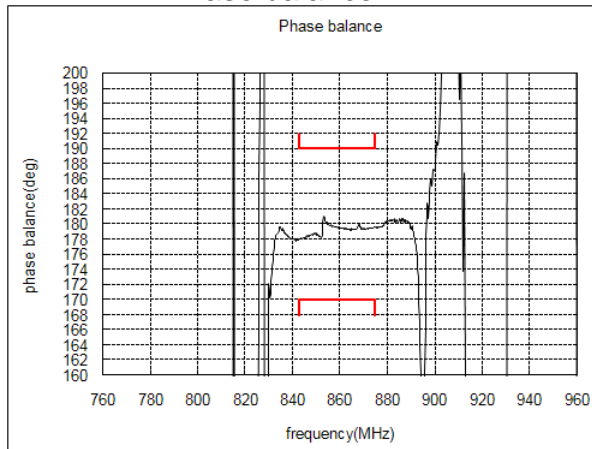
Frequency Performance



Amplitude balance



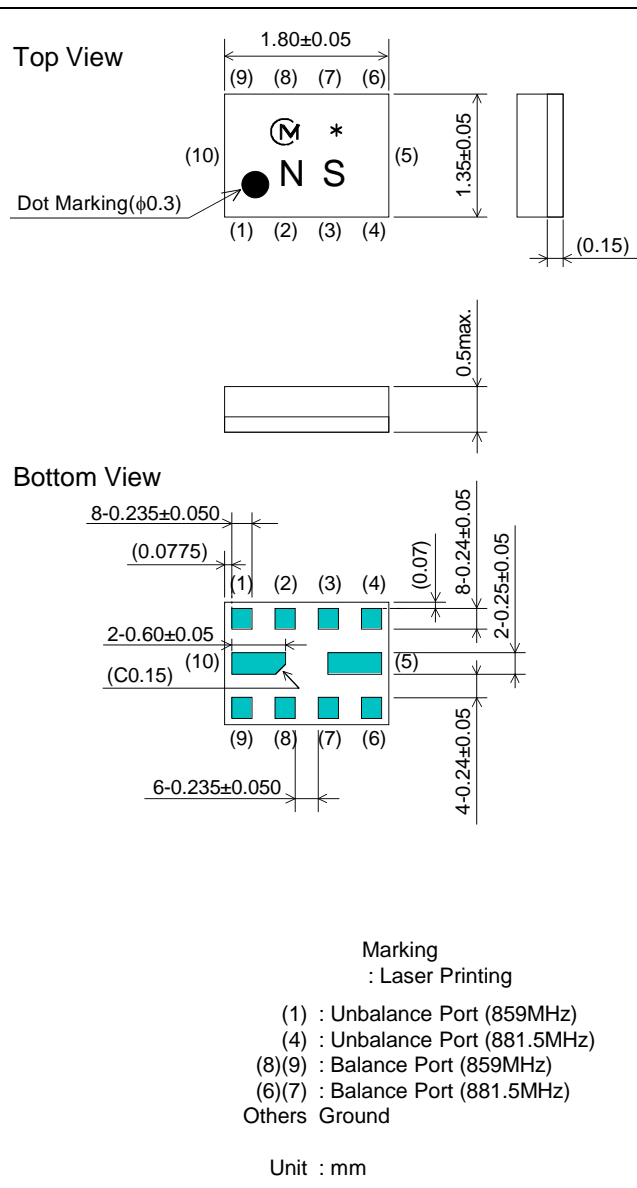
Phase balance



SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00 (fc=881.5MHz)

Package Dimensions



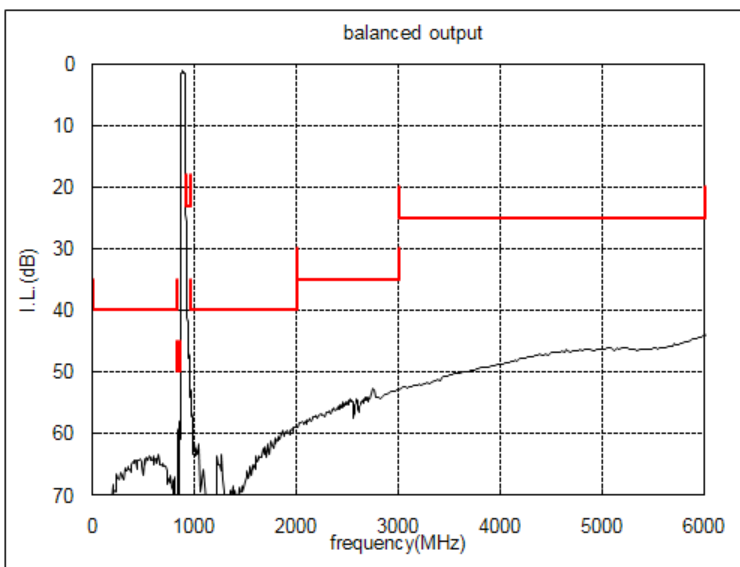
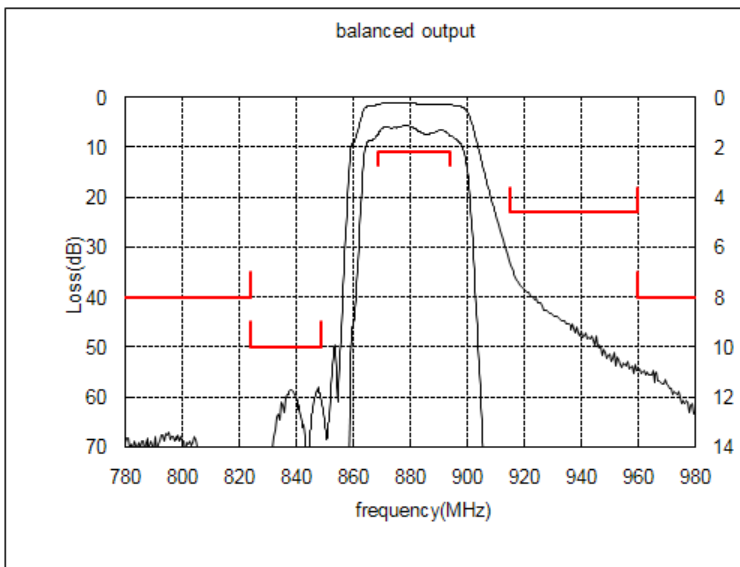
Specification

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.	2.1 dB max.	1.6 dB
Absolute Attenuation			
1) 0.1 to 824 MHz	40 dB min.	40 dB min.	61 dB
2) 824 to 849 MHz	50 dB min.	50 dB min.	59 dB
3) 915 to 960 MHz	23 dB min.	23 dB min.	34 dB
4) 960 to 2000 MHz	40 dB min.	40 dB min.	53 dB
5) 2000 to 3000 MHz	35 dB min.	35 dB min.	54 dB
6) 3000 to 6000 MHz	25 dB min.	25 dB min.	44 dB
Ripple Deviation (869 to 894MHz)	1.5dB max.	1.4dB max.	0.4 dB
VSWR (869 to 894MHz)	2.1 max.	2.0 max.	1.8
Amplitude Balance (869 to 894MHz)	±1.0dB max.	±0.8dB max.	+0.2dB
Phase Balance (869 to 894MHz)	180±10deg. max.	180±8deg. max.	180-1.6deg.
Input Impedance (nominal)	50Ω		
Output Impedance (nominal)	100Ω		
Input Signal Level	31.6mW (+15dBm), 2000 hours		

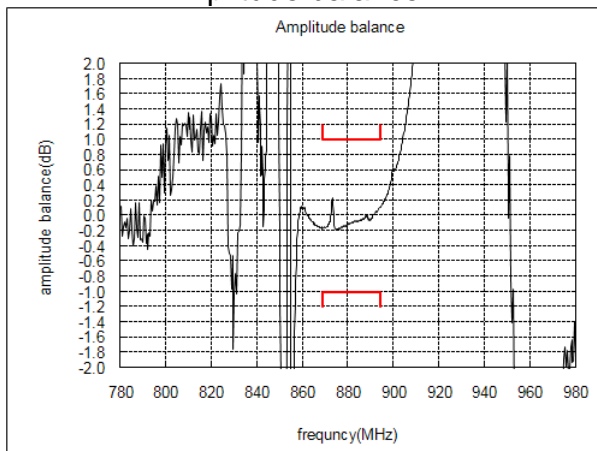
SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00 ($f_c=881.5\text{MHz}$)

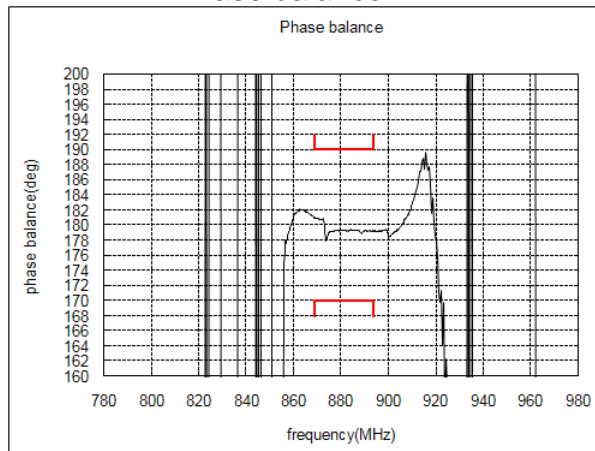
Frequency Performance



Amplitude balance



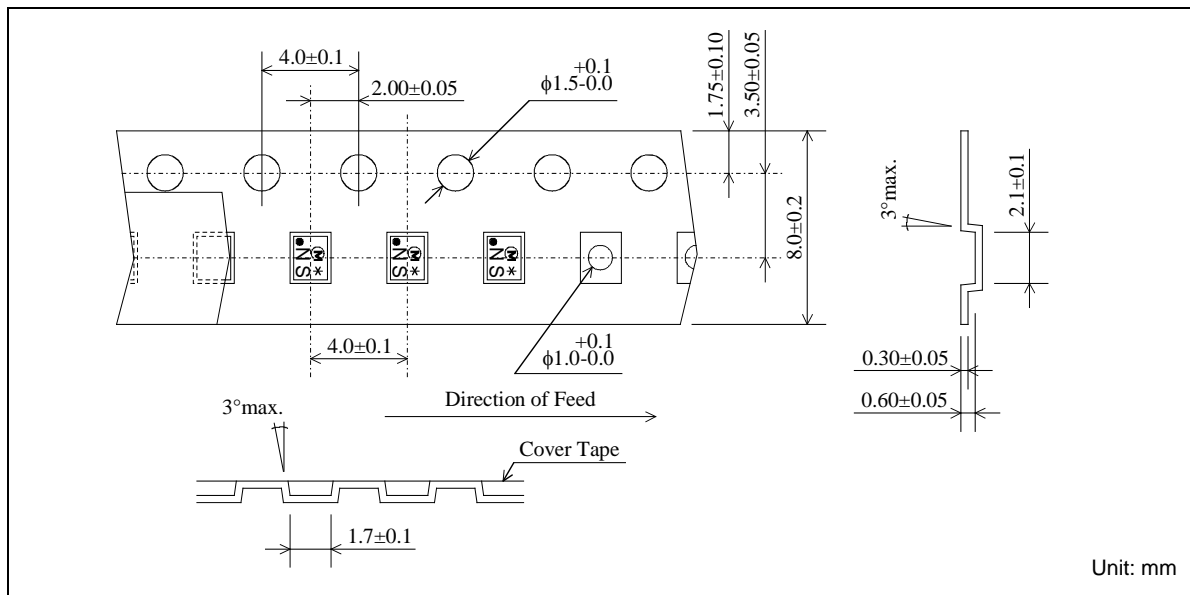
Phase balance



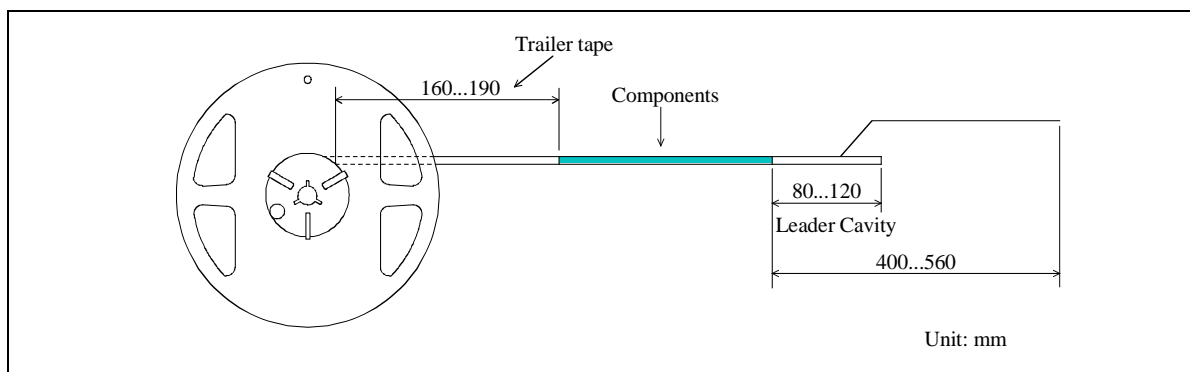
SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00

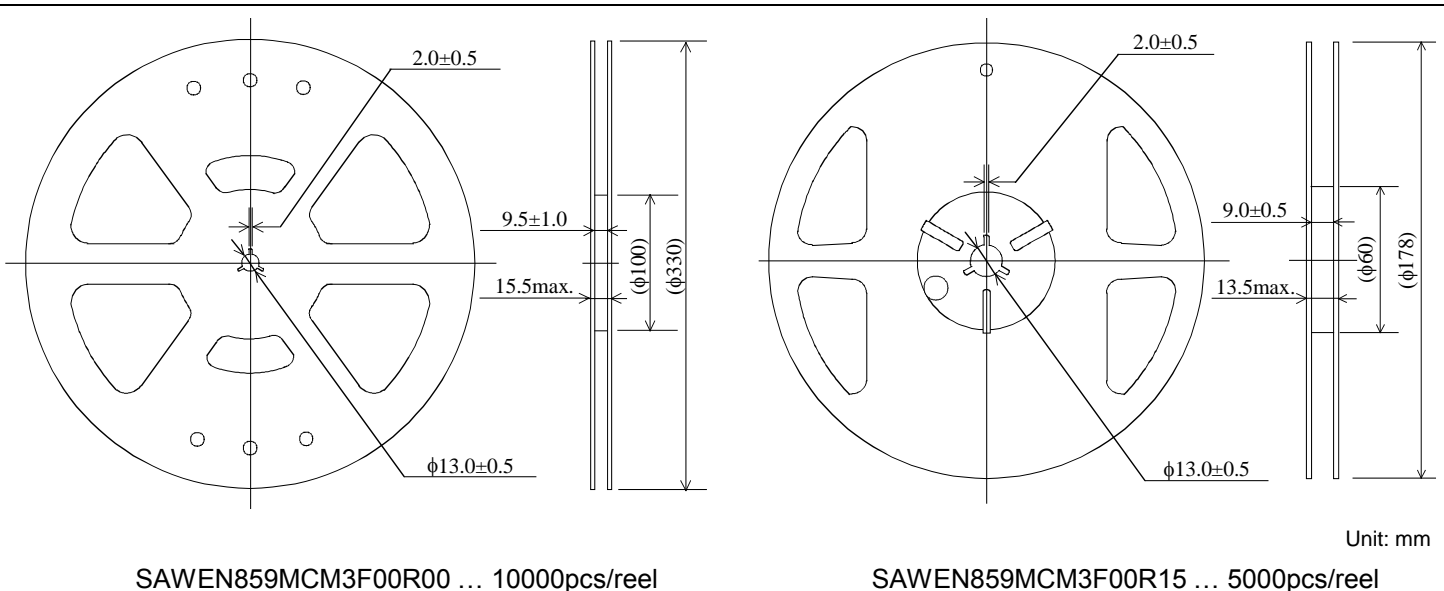
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAWEN859MCM3F00R00 ... 10000pcs/reel

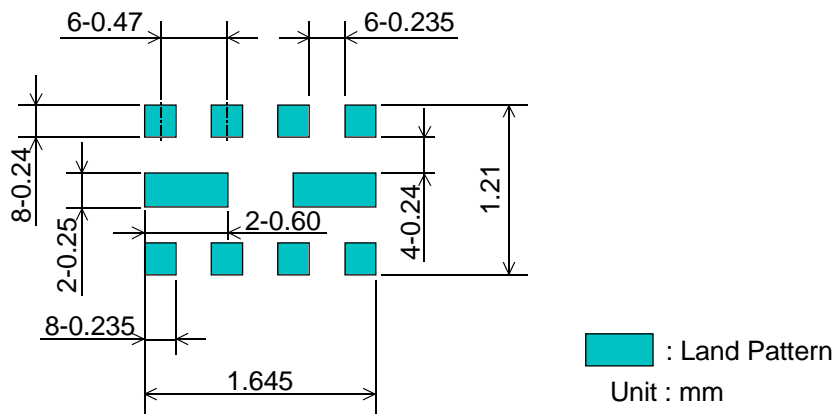
SAWEN859MCM3F00R15 ... 5000pcs/reel

SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00

Recommended Land Pattern

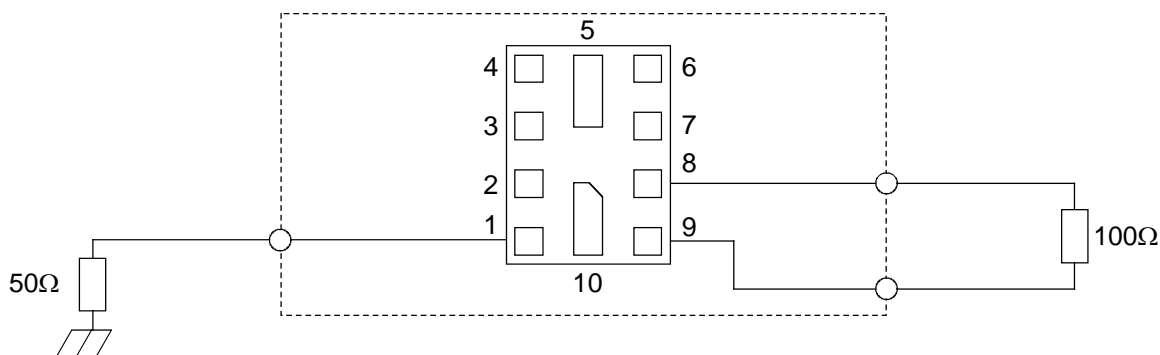
Top View



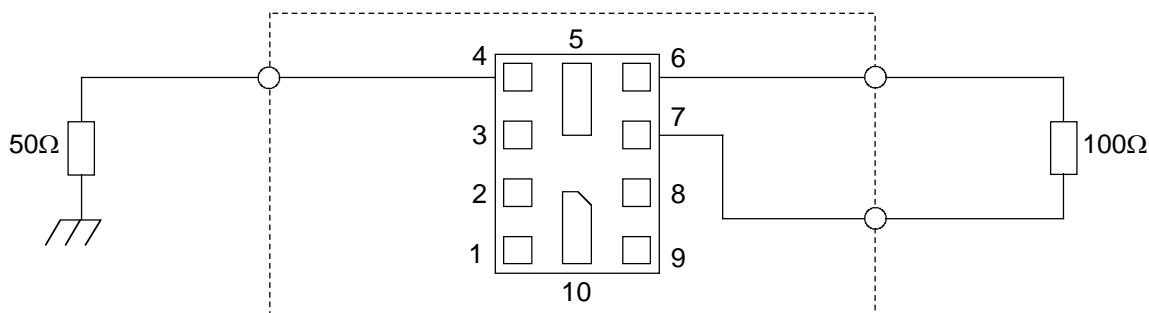
Test Circuit

Bottom View

859MHz



881.5MHz



SAW FILTER FOR J-CDMA BC0/3

Murata part number : SAWEN859MCM3F00

■ 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.