



Data Sheet of SAW Components



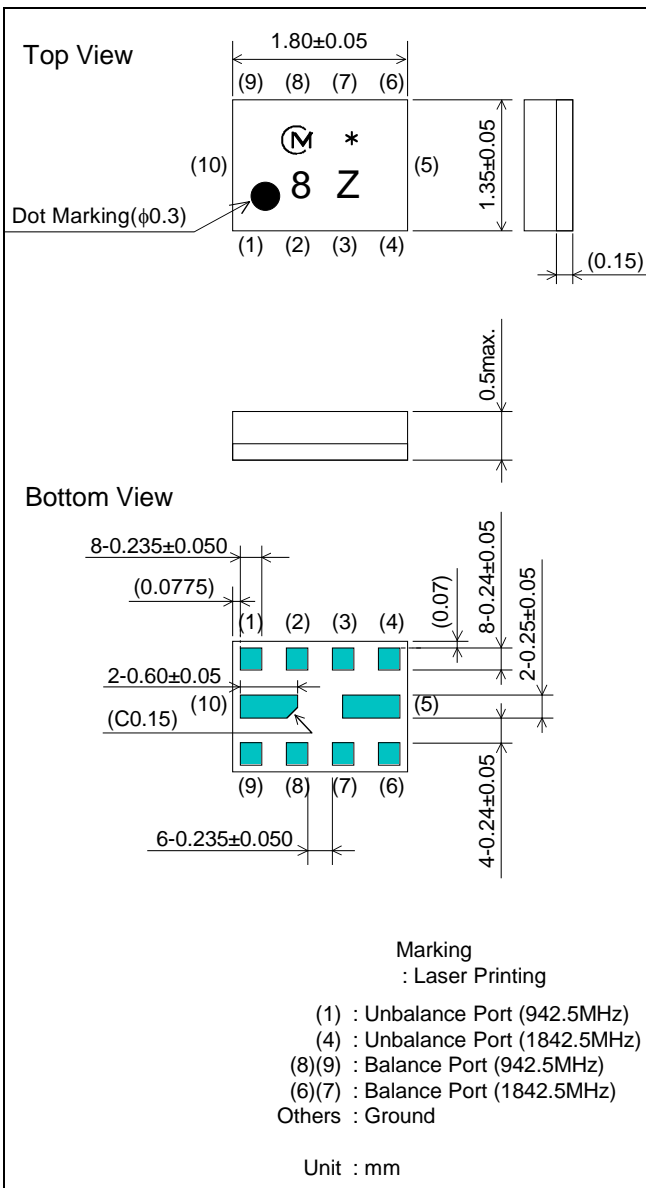
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.

Please also read caution at the end of this document.

SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00 ($f_c=942.5\text{MHz}$)

Package Dimensions



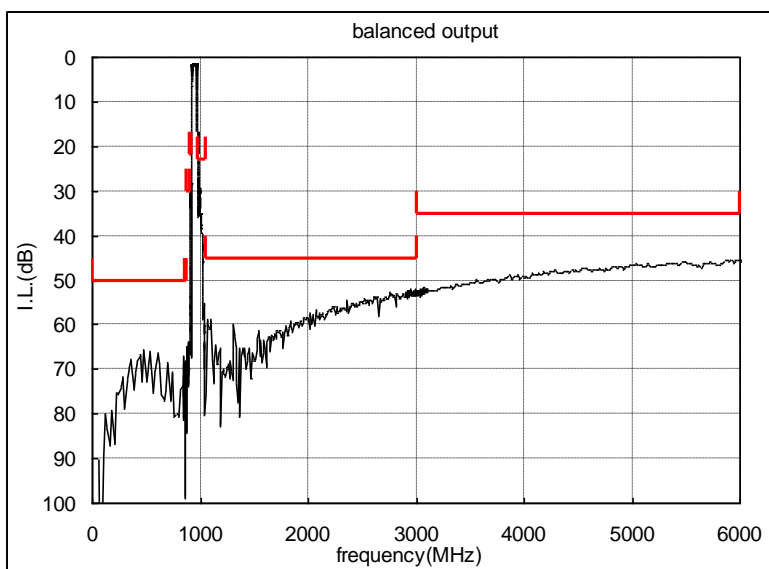
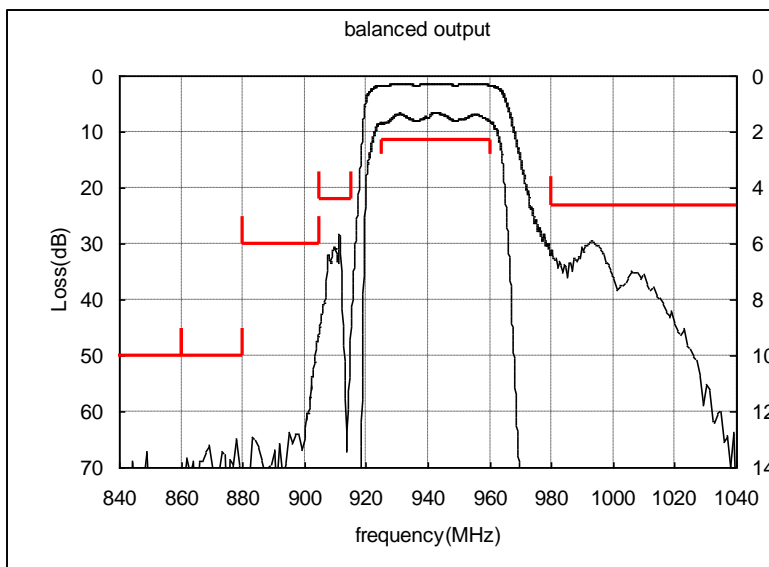
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(f_c)	942.5MHz		
Insertion Loss (925 to 960MHz)	2.3dB max.	2.0dB max.	1.8 dB
Absolute Attenuation			
1) 0.1 to 860 MHz	50 dB min.	50 dB min.	65 dB
2) 860 to 880 MHz	50 dB min.	50 dB min.	64 dB
3) 880 to 905 MHz	30 dB min.	32 dB min.	46 dB
4) 905 to 915 MHz	22 dB min.	23 dB min.	27 dB
5) 980 to 1050 MHz	23 dB min.	23 dB min.	27 dB
6) 1050 to 3000 MHz	45 dB min.	45 dB min.	52 dB
7) 3000 to 6000 MHz	35 dB min.	35 dB min.	46 dB
Ripple Deviation (925 to 960MHz)	1.5dB max.	1.3dB max.	0.5 dB
VSWR (925 to 960MHz)	2.0 max.	1.9 max.	1.8
Amplitude Balance (925 to 960MHz)	±1.0dB max.	±1.0dB max.	+0.2dB
Phase Balance (925 to 960MHz)	180±10deg. max.	180±10deg. max.	180-4deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance (nominal)	150Ω//82nH		
Input Signal Level	31.6mW(+15dBm), 2000 hours		

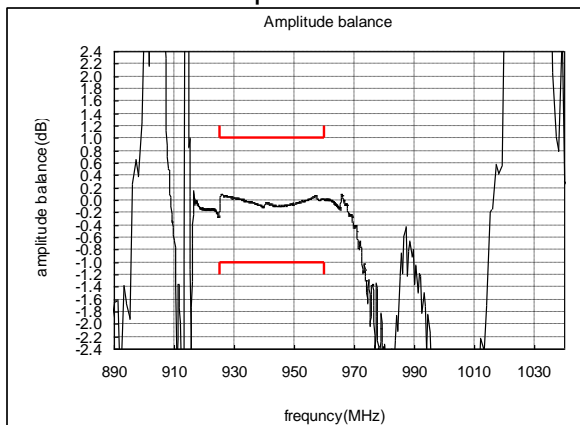
SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00 (fc=942.5MHz)

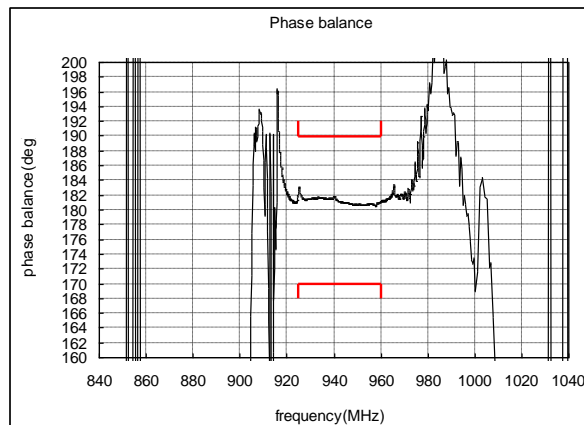
Frequency Performance



Amplitude balance



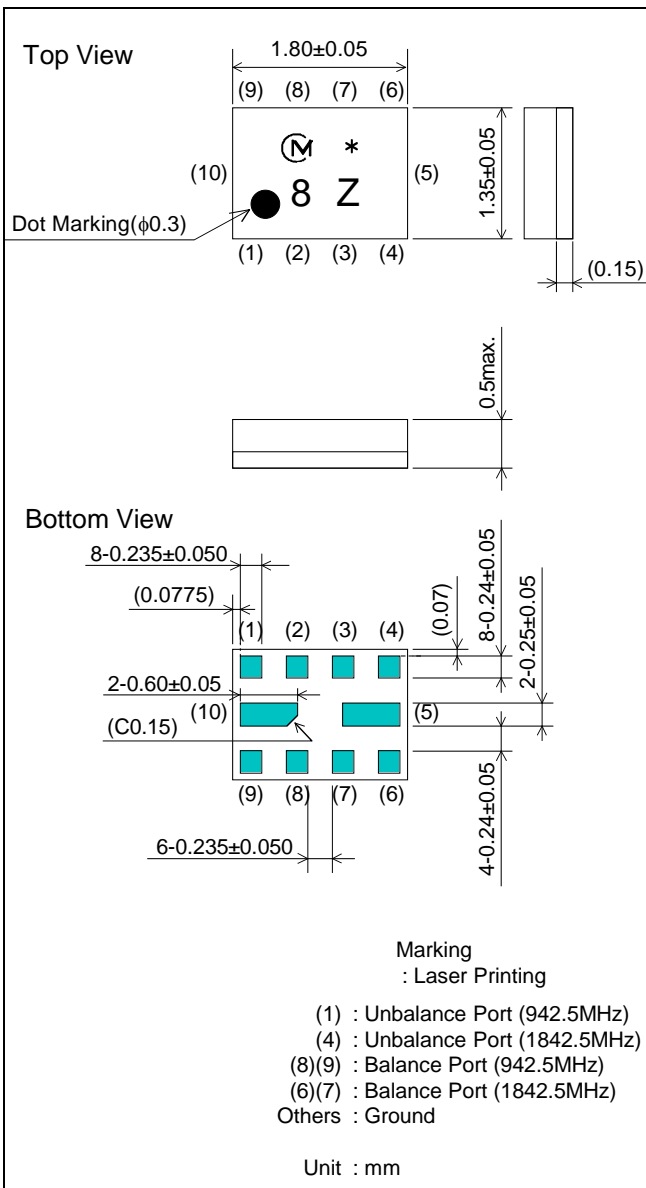
Phase balance



SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00 (fc=1842.5MHz)

Package Dimensions



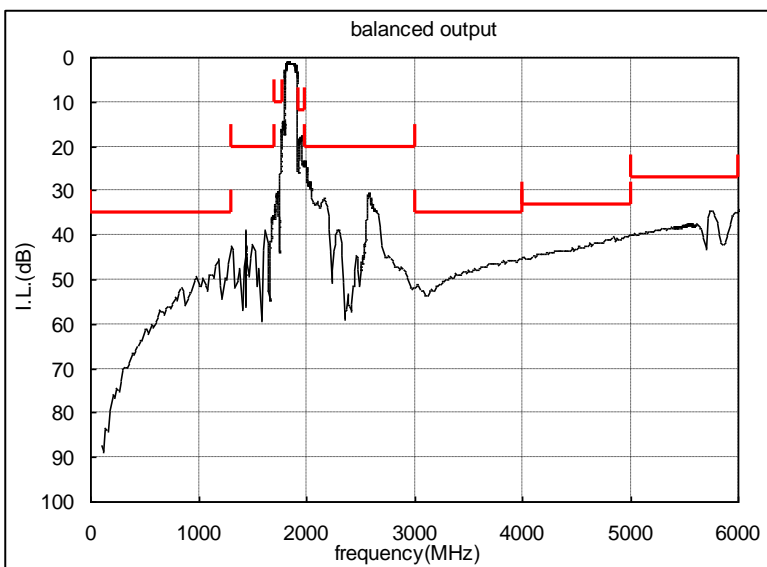
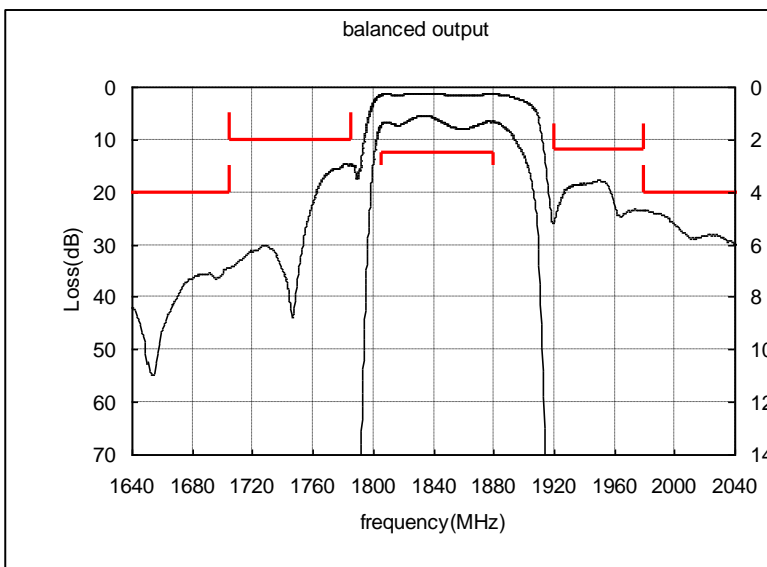
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1842.5MHz		
Insertion Loss (1805 to 1880MHz)	2.5dB max.	1.8dB max.	1.6 dB
Absolute Attenuation			
1) 0.1 to 1300 MHz	35 dB min.	35 dB min.	43 dB
2) 1300 to 1705 MHz	20 dB min.	20 dB min.	33 dB
3) 1705 to 1785 MHz	10 dB min.	12 dB min.	14 dB
4) 1920 to 1980 MHz	12 dB min.	15 dB min.	17 dB
5) 1980 to 3000 MHz	20 dB min.	20 dB min.	23 dB
6) 3000 to 4000 MHz	35 dB min.	35 dB min.	43 dB
7) 4000 to 5000 MHz	33 dB min.	33 dB min.	39 dB
8) 5000 to 6000 MHz	27 dB min.	27 dB min.	34 dB
Ripple Deviation (1805 to 1880MHz)	1.5dB max.	1.0dB max.	0.6 dB
VSWR (1805 to 1880MHz)	2.3 max.	2.2 max.	2.0 (S11) 1.9 (S22)
Amplitude Balance (1805 to 1880MHz)	±1.5dB max.	±1.2dB max.	+1.0dB
Phase Balance (1805 to 1880MHz)	180±12deg. max.	180±10deg. max.	180+6deg.
Unbalance Port Matching Impedance (nominal)	50Ω		
Balance Port Matching Impedance e (nominal)	150Ω//15nH		
Input Signal Level	20mW(+13dBm), 2000 hours		

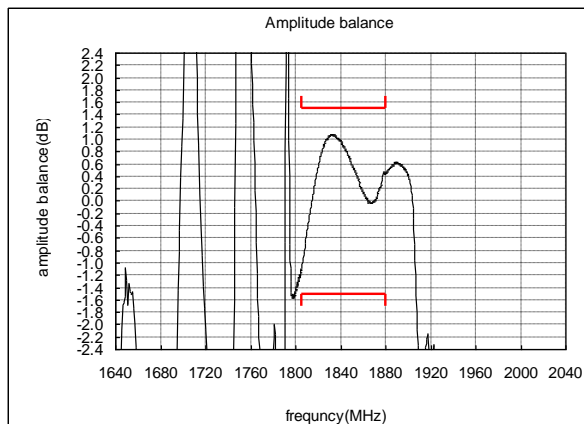
SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00 (fc=1842.5MHz)

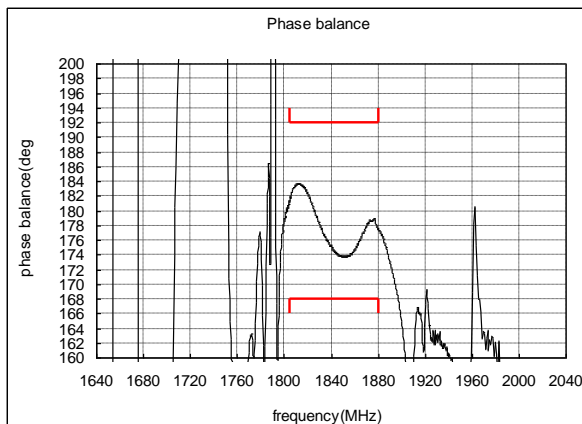
Frequency Performance



Amplitude balance



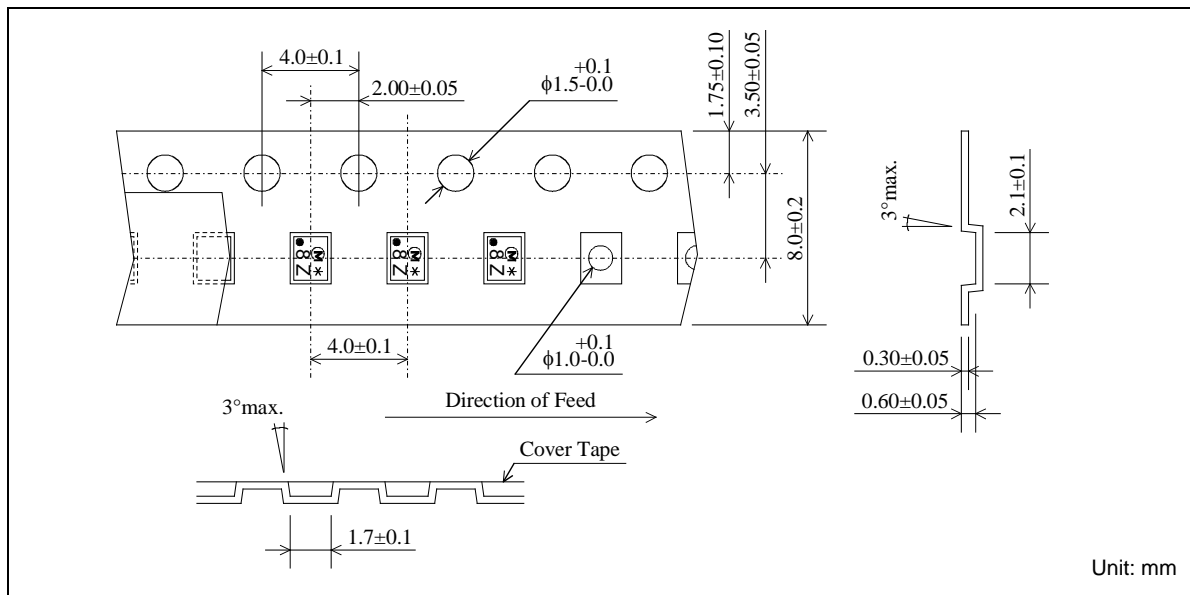
Phase balance



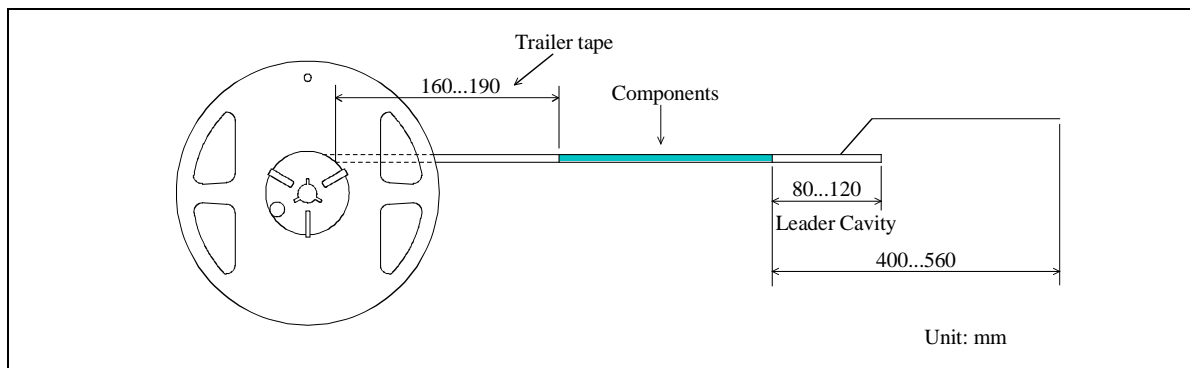
SAW FILTER FOR GSM900/1800 Rx

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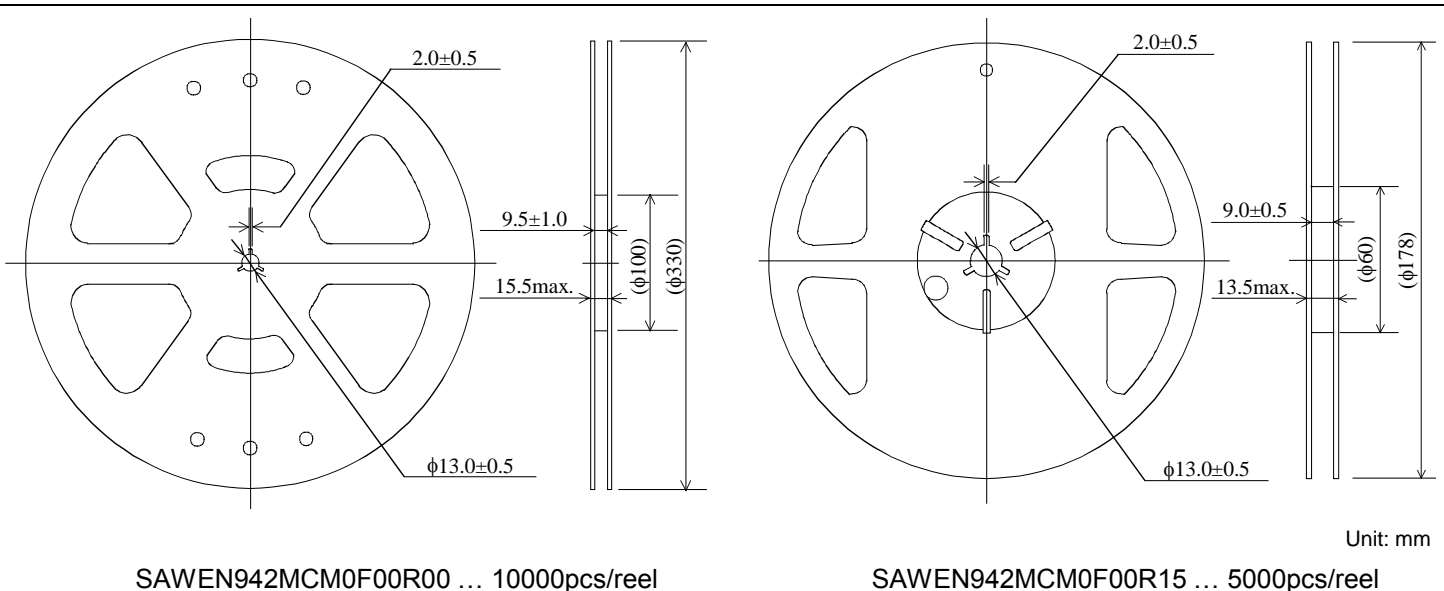
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel

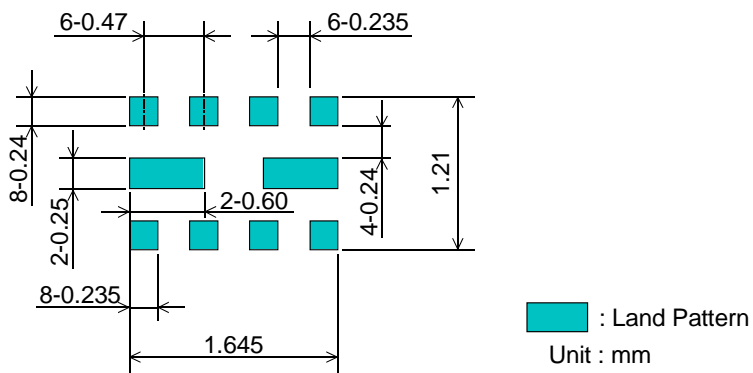


SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00

Recommended Land Pattern

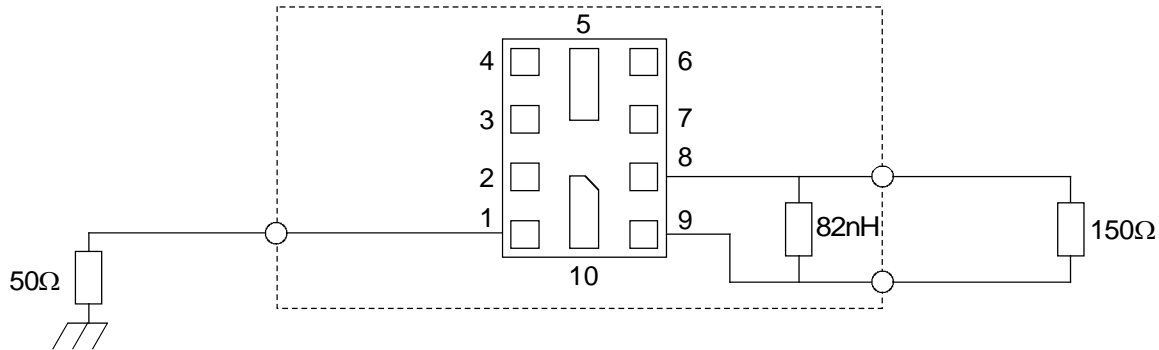
Top View



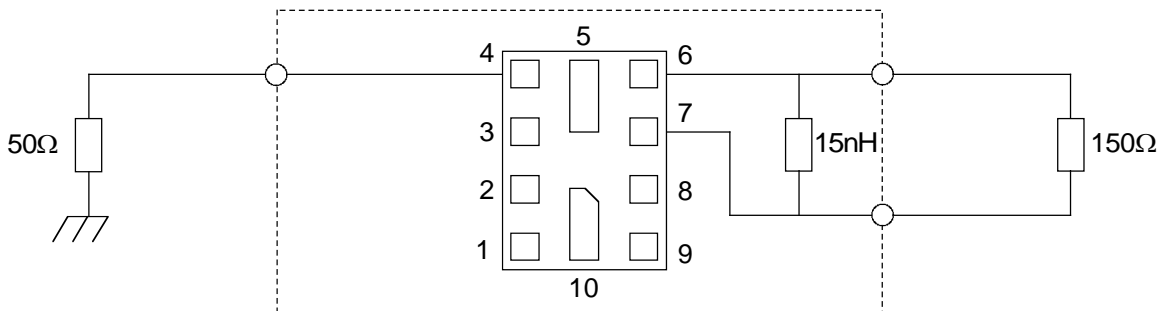
Test Circuit

Bottom View

942.5MHz



1842.5MHz



SAW FILTER FOR GSM900/1800 Rx

Murata part number : SAWEN942MCM0F00

■ 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.