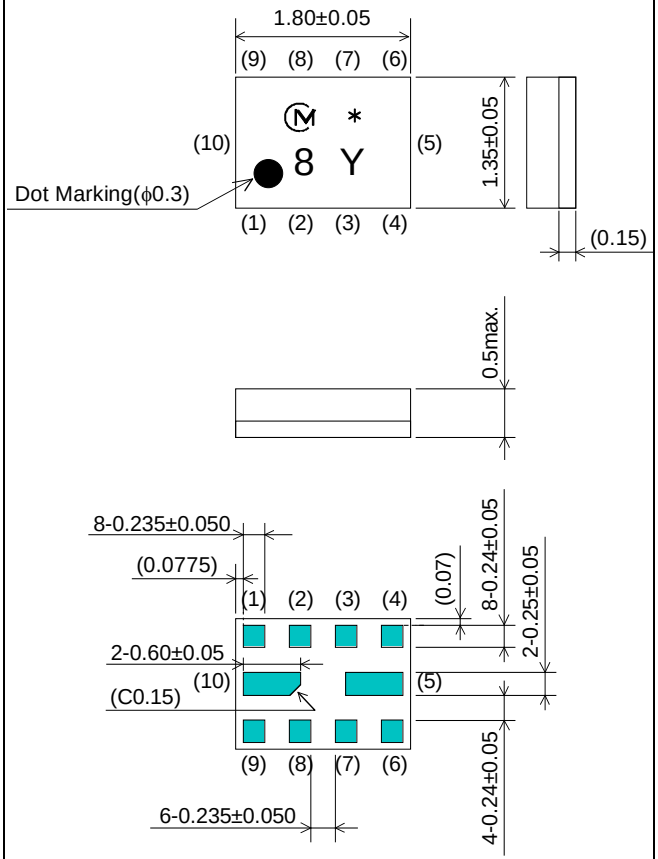
SAW FILTER FOR GSM1800/GSM1900 (Rx)

Murata part number : SAWEN1G84CY0F00(fc=1842.5MHz)

■ Package Dimensions



Marking
: Laser Printing

(1) : Unbalance Port(1842.5/1960MHz)
(6)(7) : Balance Port(1842.5MHz)
(8)(9) : Balance Port (1960MHz)
Others : Ground

Unit : mm

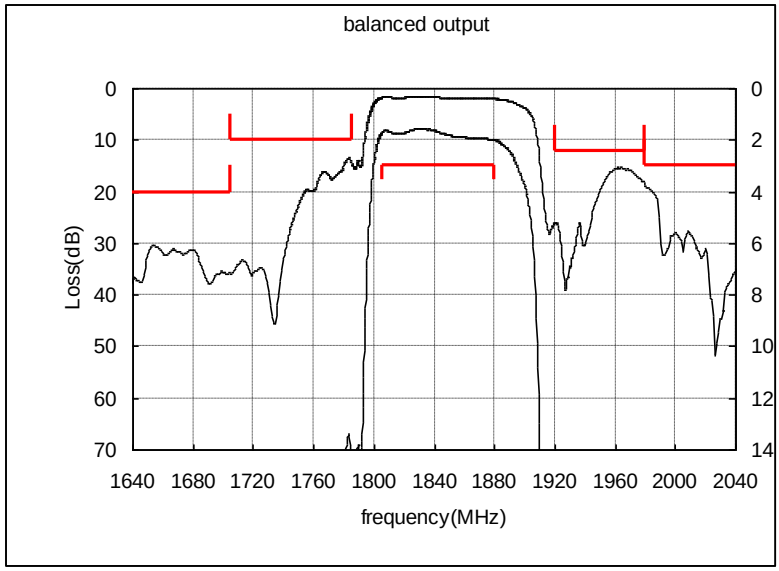
■ Specification

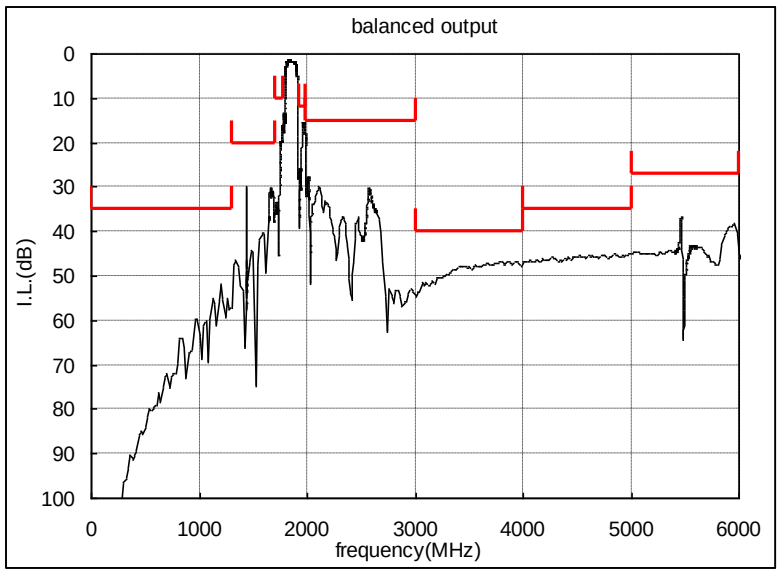
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1842.5MHz		
Insertion Loss (1805 to 1880MHz)	3.0 dB max.	2.3 dB max.	2.0 dB
Absolute Attenuation			
1) 0.1 to 1300 MHz	35 dB min.	35 dB min.	52 dB
2) 1300 to 1705 MHz	20 dB min.	20 dB min.	30 dB
3) 1705 to 1785 MHz	10 dB min.	11 dB min.	13 dB
4) 1920 to 1980 MHz	12 dB min.	13 dB min.	15 dB
5) 1980 to 3000 MHz	15 dB min.	15 dB min.	19 dB
6) 3000 to 4000 MHz	40 dB min.	40 dB min.	47 dB
7) 4000 to 5000 MHz	35 dB min.	35 dB min.	45 dB
8) 5000 to 6000 MHz	27 dB min.	27 dB min.	37 dB
Ripple Deviation (1805 to 1880MHz)	1.8dB max.	1.0dB max.	0.5 dB
VSWR (1805 to 1880MHz)	2.4 max.	2.1 max.	1.7
Amplitude Balance (1805 to 1880MHz)	±1.5dB max.	±1.2dB max.	0.5dB
Phase Balance (1805 to 1880MHz)	180±12deg. max.	180±10deg. max.	180+3deg.
Unbalance Port Matching Impedance (nominal)	50Ω//3.3nH		
Balance Port Matching Impedance (nominal)	150Ω//15nH		
Input Signal Level	20mW (+13dBm), 2000 hours		

SAW FILTER FOR GSM1800/GSM1900 (Rx)

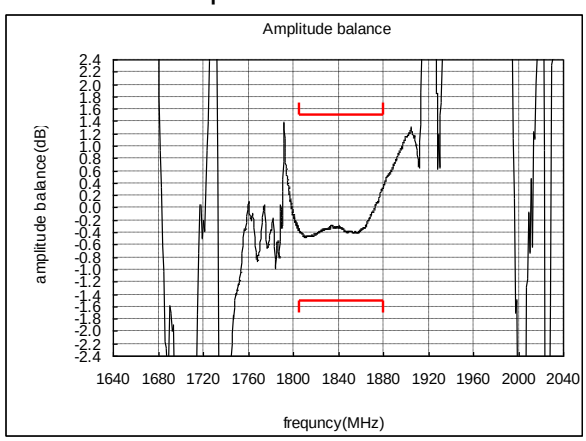
Murata part number : SAWEN1G84CY0F00(fc=1842.5MHz)

Frequency Performance

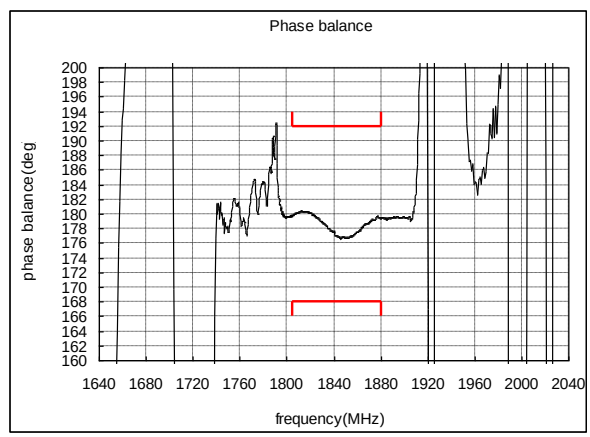




Amplitude balance



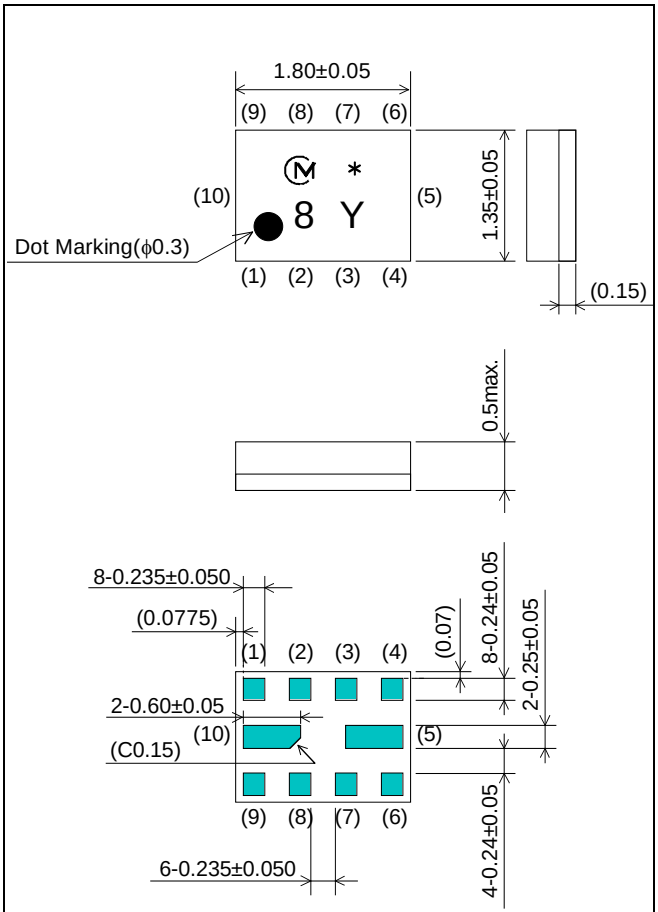
Phase balance



SAW FILTER FOR GSM1800/GSM1900 (Rx)

Murata part number : SAWEN1G84CY0F00(fc=1960MHz)

■ Package Dimensions



Marking
: Laser Printing

(1) : Unbalance Port(1842.5/1960MHz)
(6)(7) : Balance Port(1842.5MHz)
(8)(9) : Balance Port (1960MHz)
Others : Ground

Unit : mm

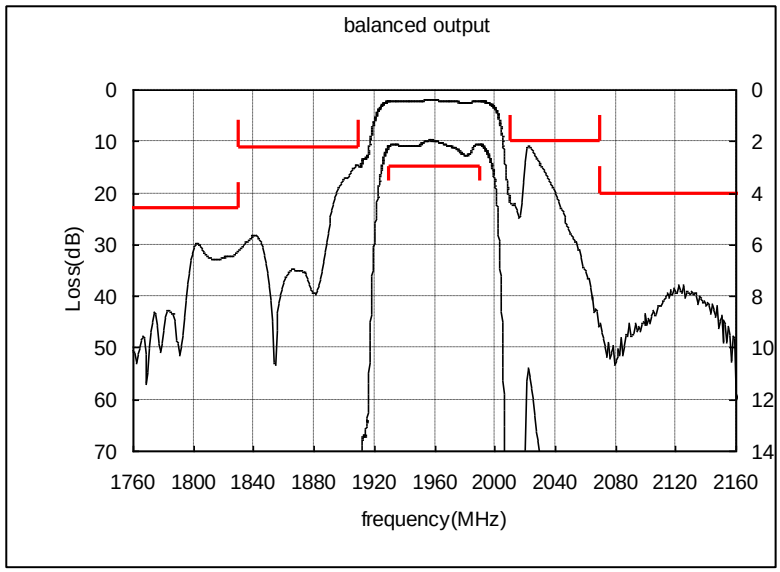
■ Specification

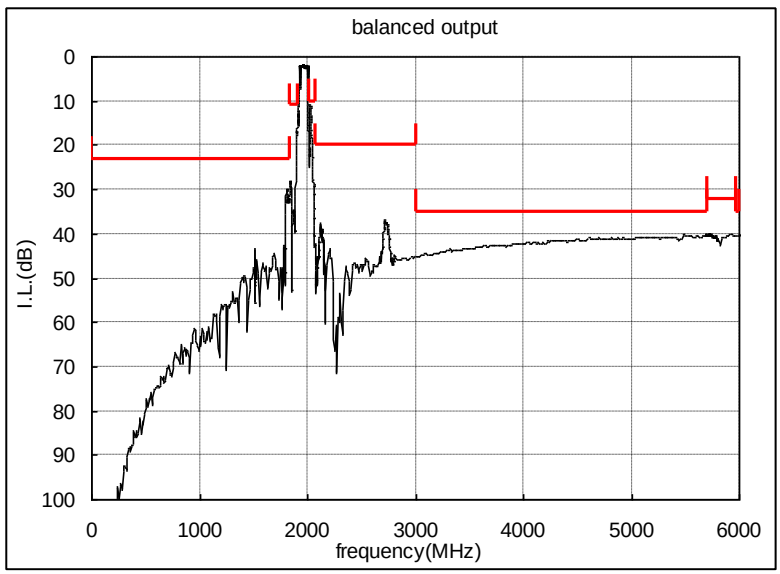
Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1960MHz		
Insertion Loss (1930 to 1990MHz)	3.0 dB max.	2.8 dB max.	2.5 dB
Absolute Attenuation			
1) 0.1 to 1830 MHz	23 dB min.	23 dB min.	30 dB
2) 1830 to 1910 MHz	11 dB min.	11 dB min.	14 dB
3) 2010 to 2070 MHz	5 dB min.	9 dB min.	10 dB
4) 2070 to 3000 MHz	20 dB min.	20 dB min.	37 dB
5) 3000 to 5700 MHz	35 dB min.	35 dB min.	40 dB
6) 5700 to 5970 MHz	32 dB min.	32 dB min.	40 dB
7) 5970 to 6000 MHz	35 dB min.	35 dB min.	40 dB
Ripple Deviation (1930 to 1990MHz)	1.8dB max.	1.1dB max.	0.6 dB
VSWR (1930 to 1990MHz)	2.3 max.	1.9 max.	1.5
Amplitude Balance (1930 to 1990MHz)	±2.0dB max.	±1.8dB max.	1.0dB
Phase Balance (1930 to 1990MHz)	180±12deg. max.	180±10deg. max.	180+6.4deg.
Unbalance Port Matching Impedance (nominal)	50Ω//3.3nH		
Balance Port Matching Impedance (nominal)	150Ω//22nH		
Input Signal Level	20mW (+13dBm), 2000 hours		

SAW FILTER FOR GSM1800/GSM1900 (Rx)

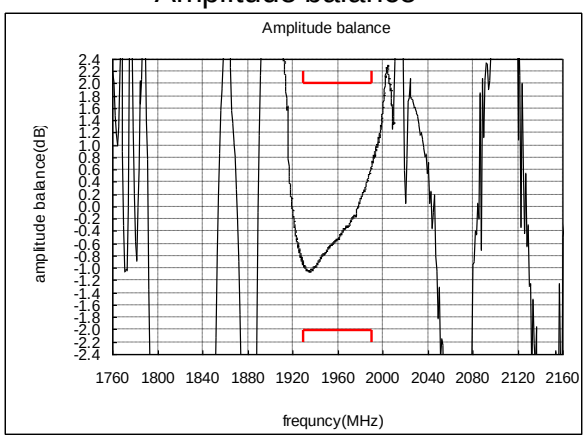
Murata part number : SAWEN1G84CY0F00(fc=1960MHz)

Frequency Performance

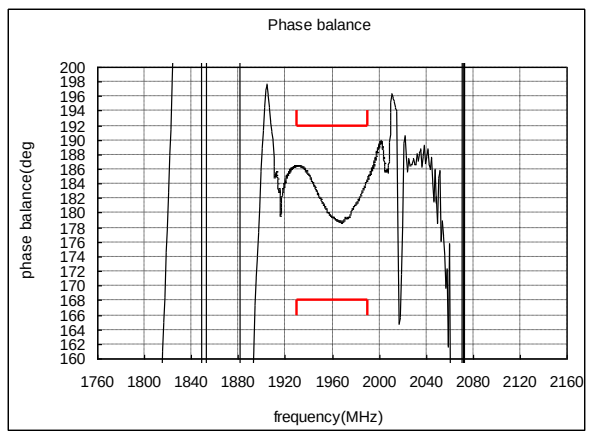




Amplitude balance



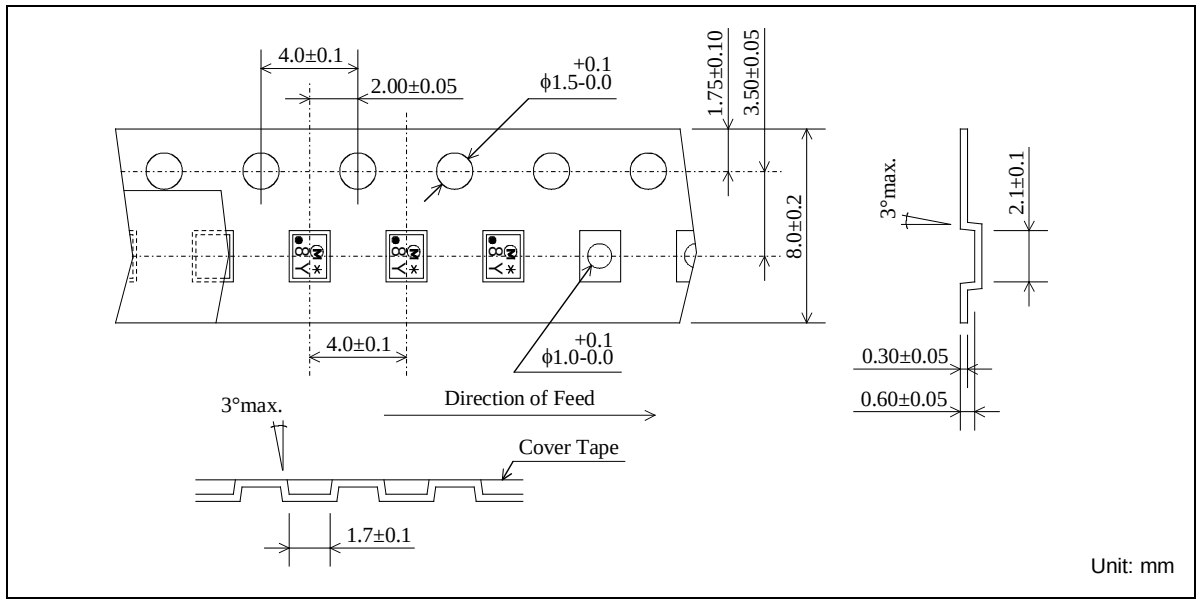
Phase balance



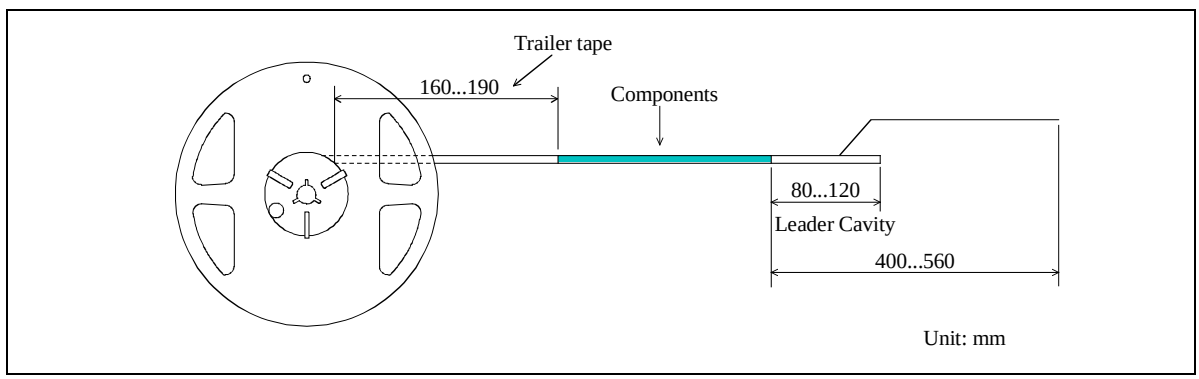
SAW FILTER FOR GSM1800/GSM1900 (Rx)

Murata part number : SAWEN1G84CY0F00

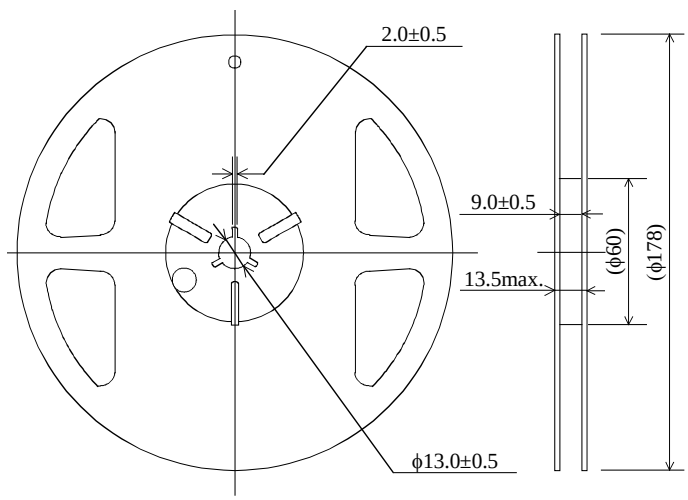
■ Dimensions of Carrier Tape



■ Dimensions of Tape



■ Dimensions of Reel



Unit: mm

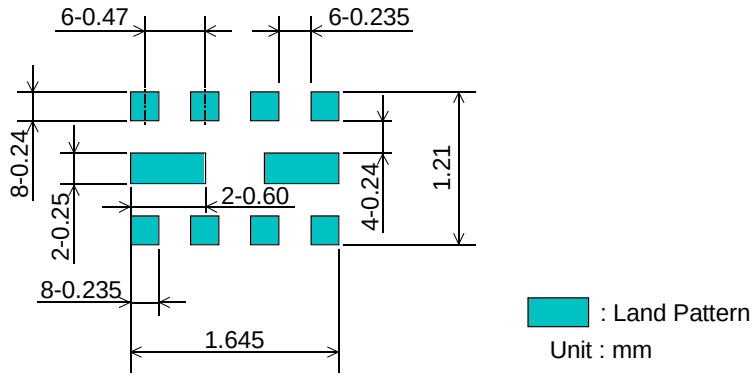
SAWEN1G84CY0F00R14 … 4000pcs/reel

SAWEN1G84CY0F00R12 … 2000pcs/reel

SAW FILTER FOR GSM1800/GSM1900 (Rx)

Murata part number : SAWEN1G84CY0F00

■ Recommended Land Pattern



■ Test Circuit