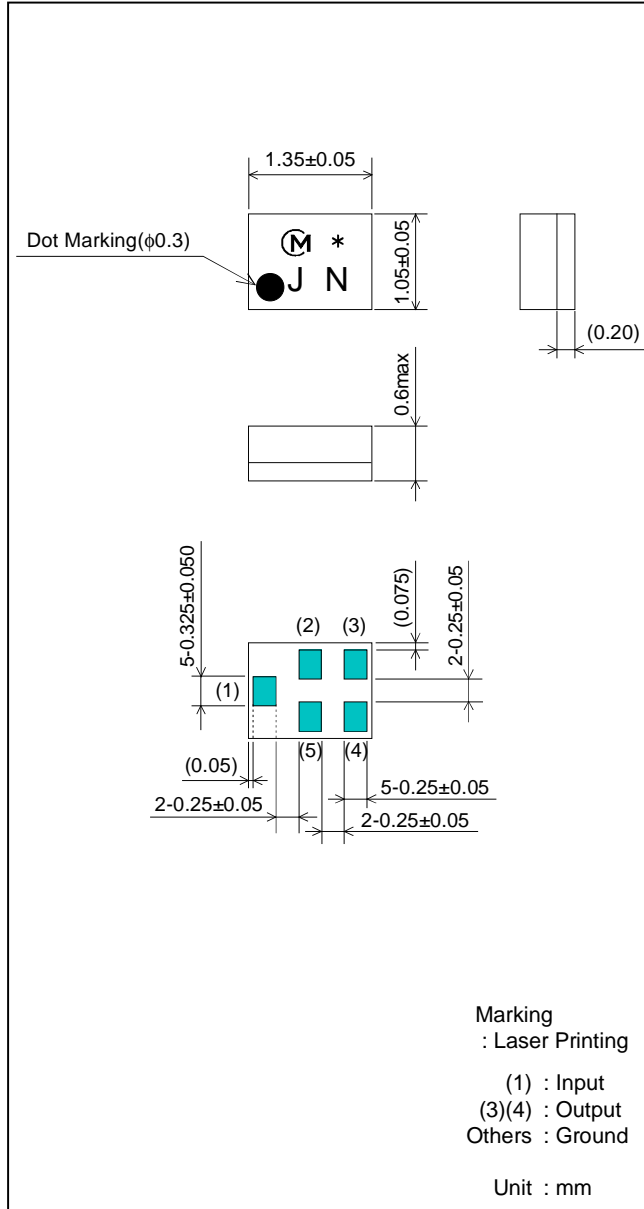


# SAW FILTER FOR GPS

Murata part number :SAFEB1G57FA0F55

## Package Dimensions



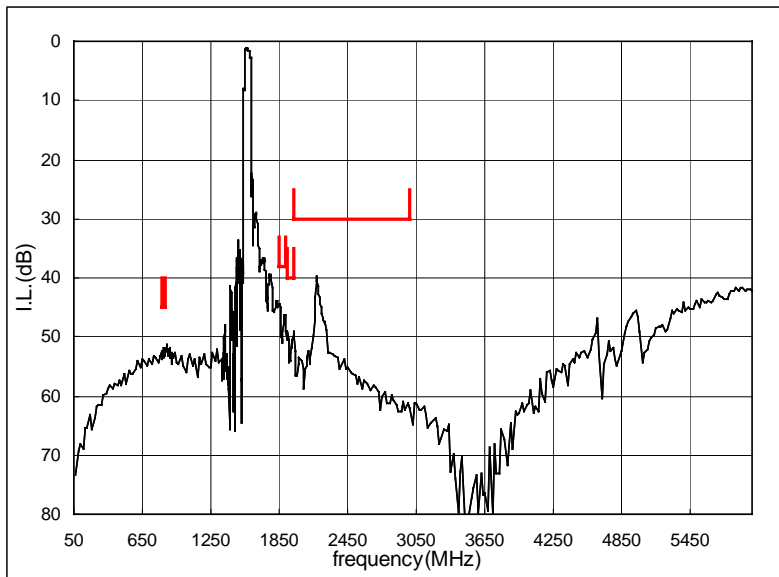
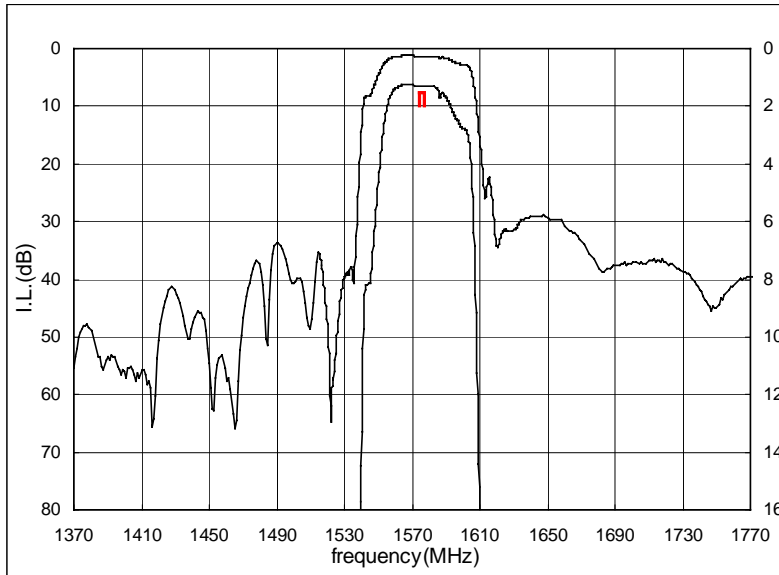
## Specification

| Item                                   | Specification             |                   |                |
|--|---------------------------|-------------------|----------------|
|  | -30 to 85°C               | 25 $\pm$ 2°C      | typ.           |
| Nominal Center Frequency(fc)           | 1575.5MHz                 |                   |                |
| Insertion Loss<br>(1574 to 1577MHz)    | 1.6 dB max.               | 1.5 dB max.       | 1.3 dB         |
| Absolute Attenuation                   |                           |                   |                |
| 1) 824 to 849 MHz                      | 45 dB min.                | 45 dB min.        | 53 dB          |
| 2) 1850 to 1910 MHz                    | 38 dB min.                | 38 dB min.        | 45 dB          |
| 3) 1920 to 1980 MHz                    | 40 dB min.                | 40 dB min.        | 47 dB          |
| 4) 1980 to 3000 MHz                    | 30 dB min.                | 30 dB min.        | 38 dB          |
| Ripple Deviation<br>(1574 to 1577MHz)  | 0.6dB max.                | 0.5dB max.        | 0.2 dB         |
| VSWR<br>(1574 to 1577MHz)              | 1.7 max.                  | 1.7 max.          | 1.2            |
| Amplitude Balance<br>(1574 to 1577MHz) | $\pm$ 1.0 dB max.         | $\pm$ 1.0 dB max. | +0.5 dB        |
| Phase Balance<br>(1574 to 1577MHz)     | 180 $\pm$ 8 deg.          | 180 $\pm$ 8 deg.  | 180.0+3.5 deg. |
| Input Impedance (nominal)              | 50 $\Omega$               |                   |                |
| Output Impedance (nominal)             | 100 $\Omega$              |                   |                |
| Input Signal Level                     | 20mW (+13dBm), 2000 hours |                   |                |

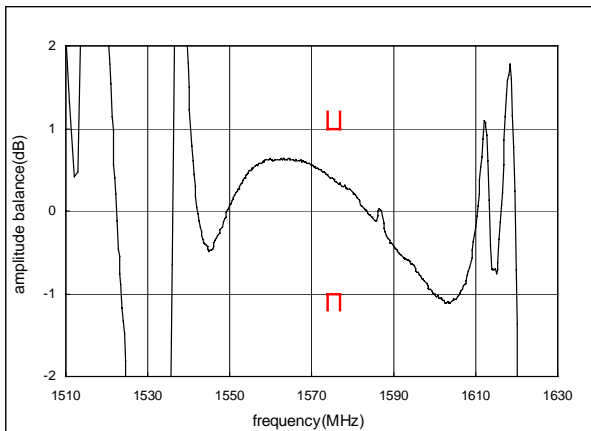
# SAW FILTER FOR GPS

Murata part number :SAFEB1G57FA0F55

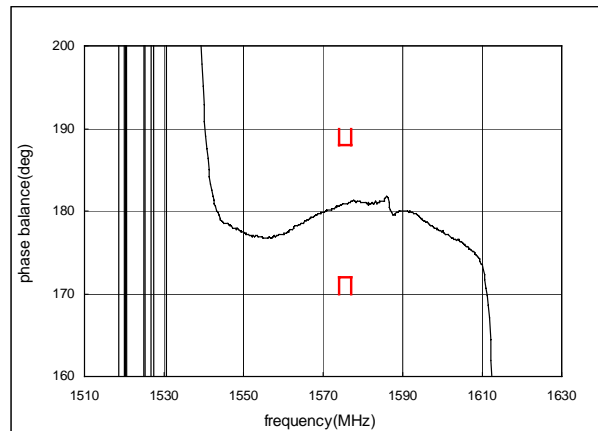
## Frequency Performance



Amplitude balance



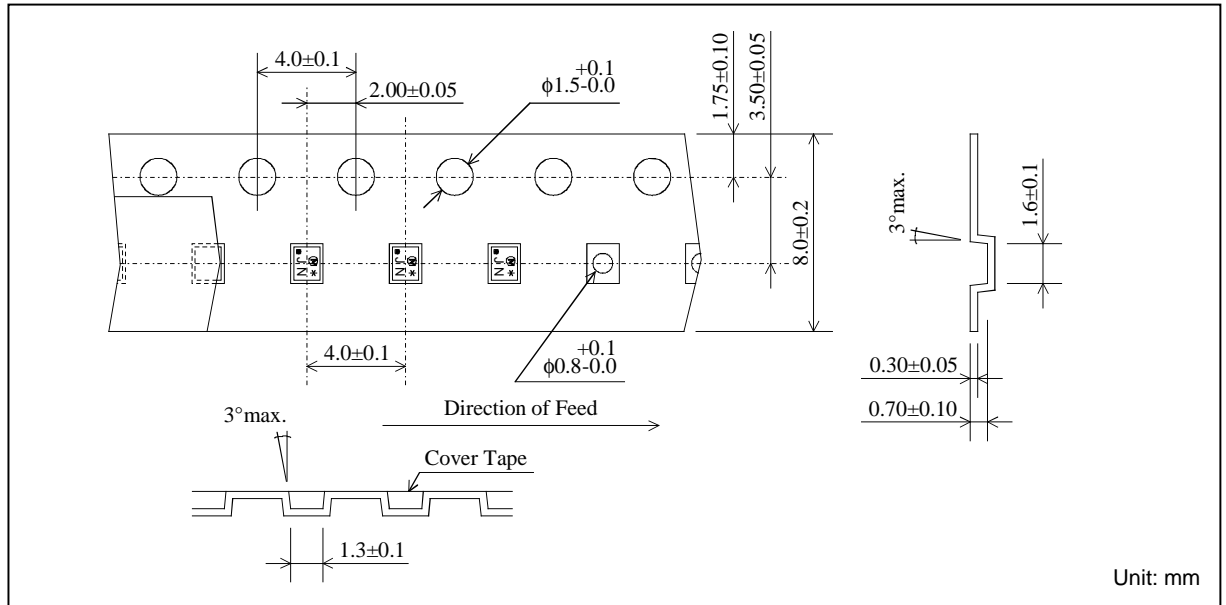
Phase balance



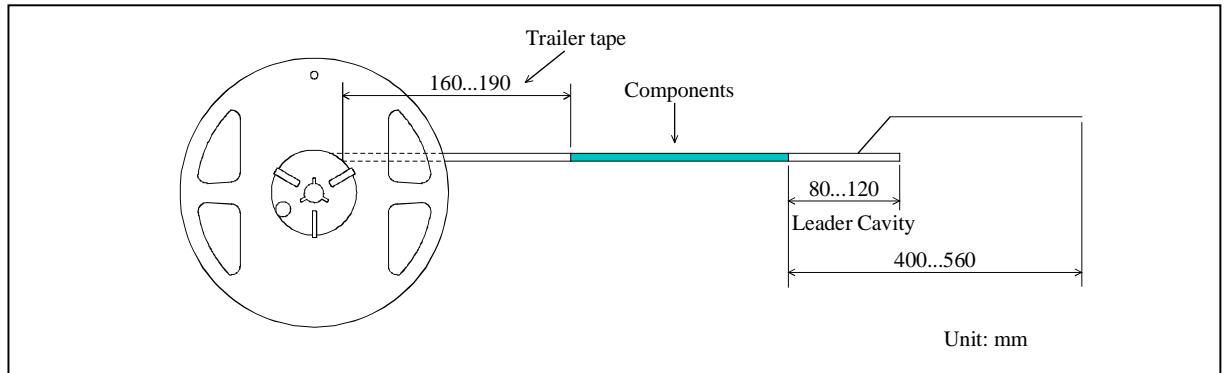
# SAW FILTER FOR GPS

Murata part number :SAFEB1G57FA0F55

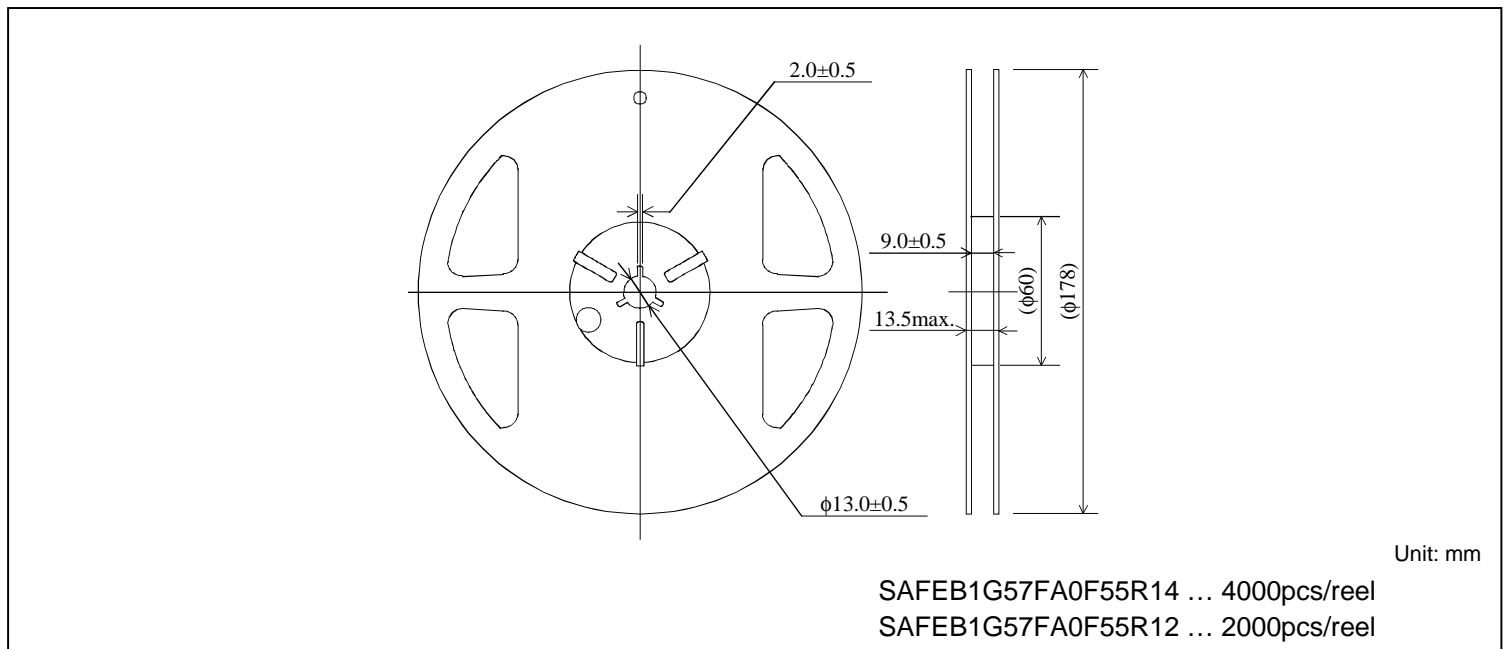
## ■ Dimensions of Carrier Tape



## ■ Dimensions of Tape



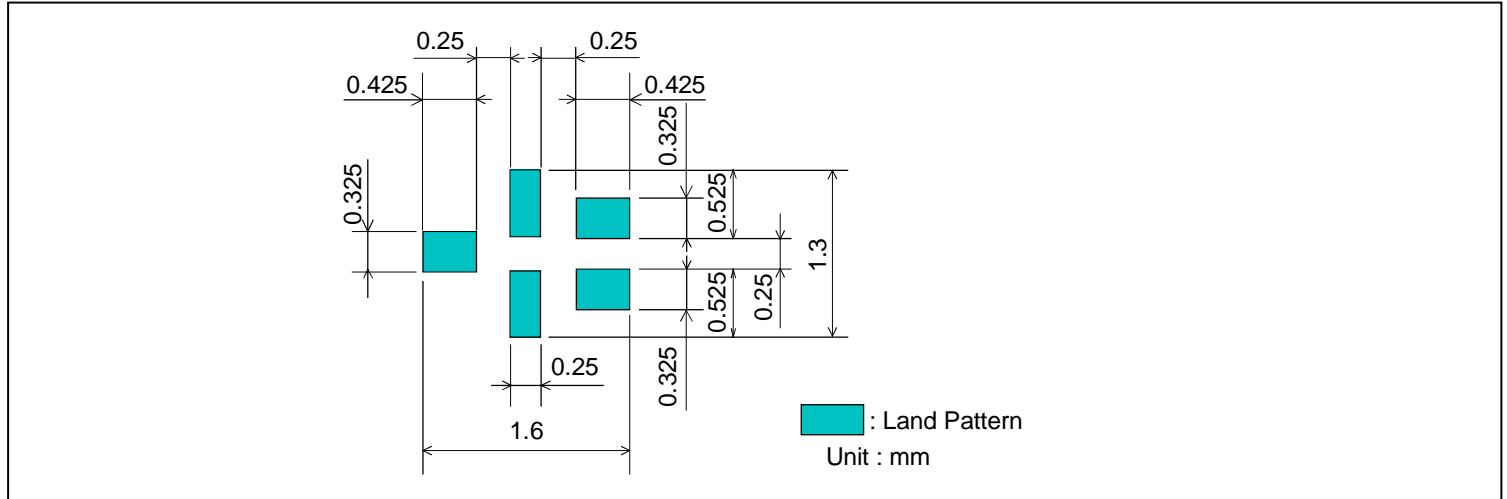
## ■ Dimensions of Reel



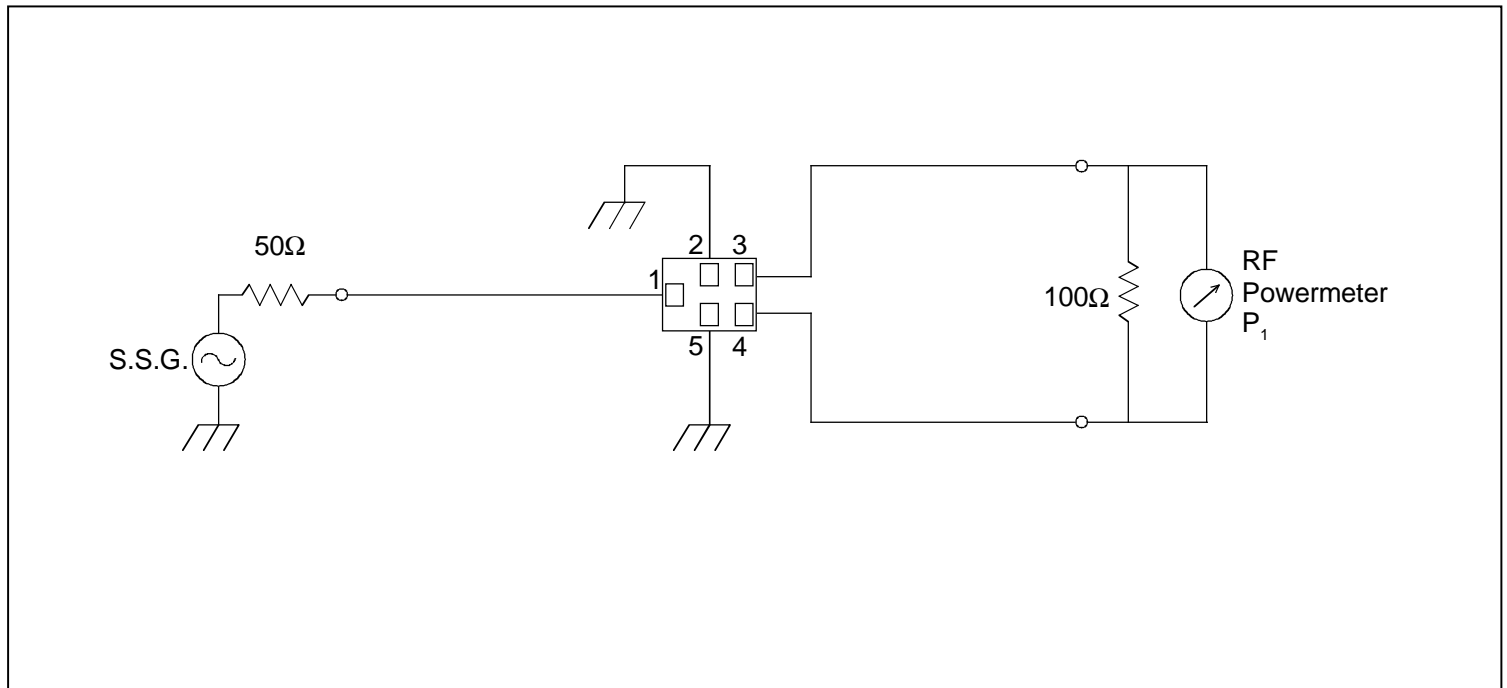
# SAW FILTER FOR GPS

Murata part number :SAFEB1G57FA0F55

## Recommended Land Pattern



## Test Circuit



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