

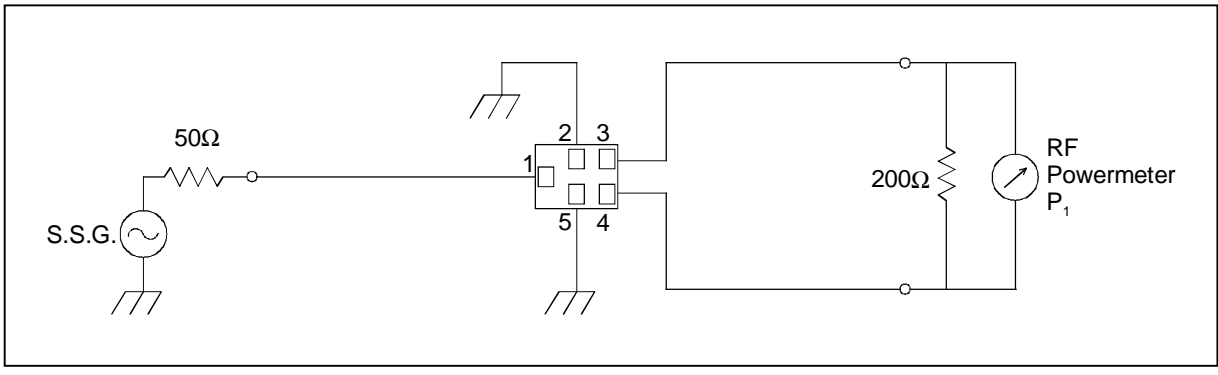
SAW FILTER FOR GPS RF

Murata part number : SAFEB1G57FL0F00

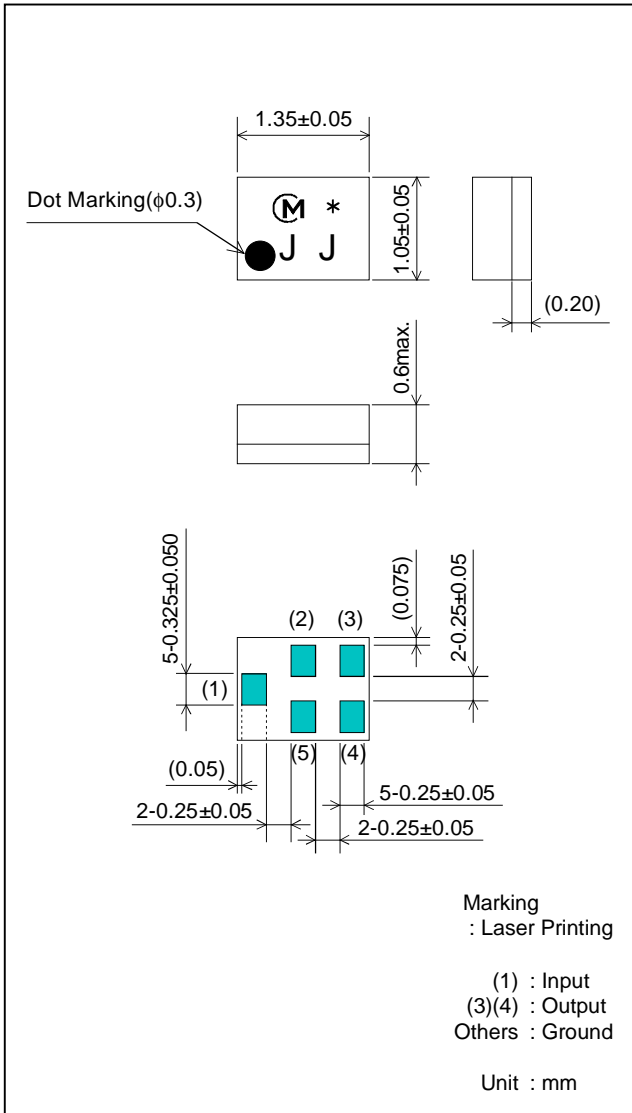
Feature

1. Ultra Small SMD package (1.35x1.05mm package)
2. Balance type (50Ω//200Ω)
3. No Need Matching Inductance

Test Circuit



Package Dimensions



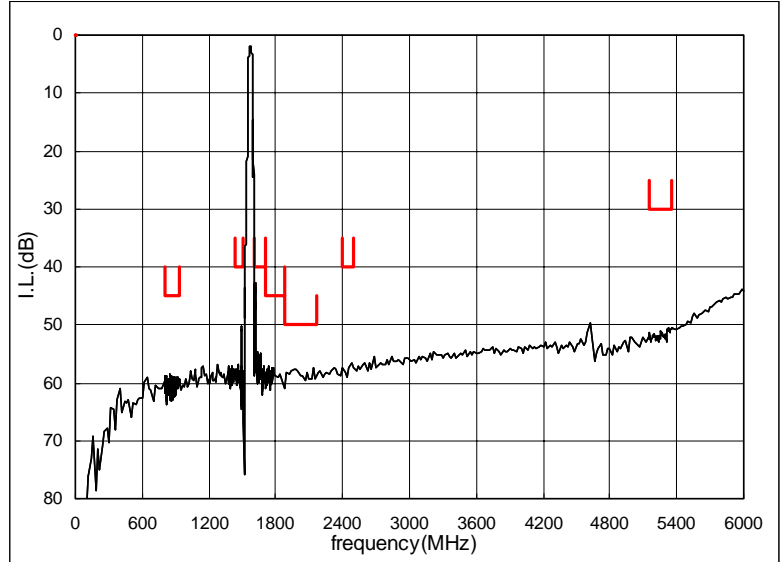
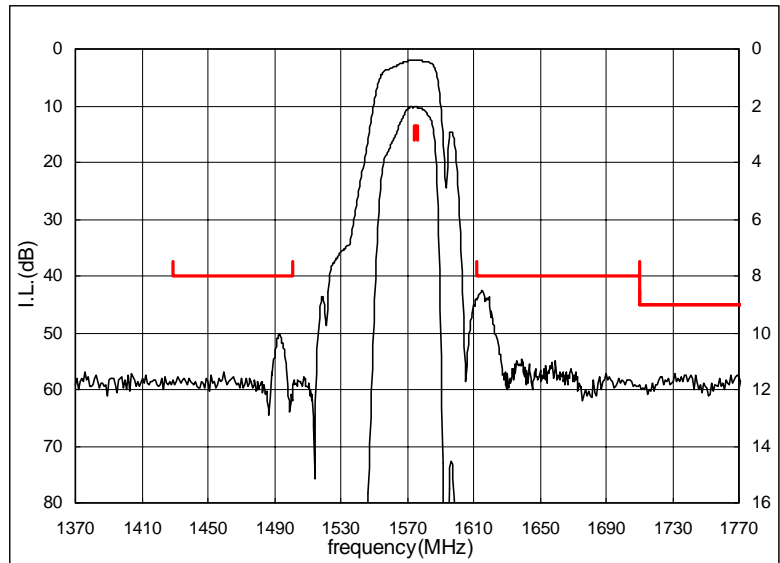
Specification

Item	Specification		
	-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)	1575.42MHz		
Insertion Loss (1574.42 to 1576.42MHz)	2.7dB max.	2.6dB max.	2.1 dB
Absolute Attenuation			
1) 806 to 928 MHz	45 dB min.	45 dB min.	58 dB
2) 1429 to 1501 MHz	40 dB min.	40 dB min.	48 dB
3) 1612 to 1710 MHz	40 dB min.	40 dB min.	41 dB
4) 1710 to 1880 MHz	45 dB min.	45 dB min.	55 dB
5) 1880 to 2170 MHz	50 dB min.	50 dB min.	56 dB
6) 2400 to 2500 MHz	40 dB min.	40 dB min.	55 dB
7) 5150 to 5350 MHz	30 dB min.	30 dB min.	48 dB
Ripple Deviation (1574.42 to 1576.42MHz)	0.5dB max.	0.3dB max.	0.02 dB
Return Loss (1574.42 to 1576.42MHz)	12dB max.	12dB max.	20 dB
VSWR (1574.42 to 1576.42MHz)	1.7 max.	1.7 max.	1.2
Group Delay Time Deviation (1574.42 to 1576.42MHz)	50 ns max.	50 ns max.	3 ns
Amplitude Balance (1574.42 to 1576.42MHz)	±1.0dB max.	±1.0dB max.	±0.1dB
Phase Balance (1574.42 to 1576.42MHz)	180±5deg. max.	180±5deg. max.	180±2.3deg.
Input Impedance (nominal)	50Ω		
Output Impedance (nominal)	200Ω		

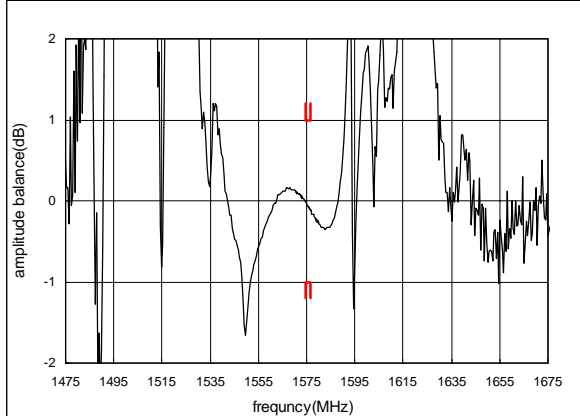
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Frequency Performance



Amplitude balance



Phase balance

