



SK3521S

GPS+GLONASS+BEIDOU, RF SAW Filter
Unbalanced / 5pin / 1109
Rev 1.3

MSL 3 Device



- ☐ Electrical Characteristics
 - ☐ Package Dimensions
 - ☐ Testing Environment
 - ☐ Frequency Characteristics
-

□ Electrical Characteristics

Maximum Ratings

Parameters Description		Unit	Minimum	Typical	Maximum
Operating Temperature Range		°C	-30	-	+85
Storage Temperature Range		°C	-40	-	+85
Maximum DC Voltage		V	-	-	5
Maximum Input Power (5000h/+55 °C)		dBm	-	-	15
Source Impedance (unbalanced) ⁽¹⁾		Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾		Ω	-	50	-
Length x Width		mm ²	-	1.1 x 0.9	-
Height		mm	-	0.55	-
ESD voltage	CDM	V	-	-	500
	HBM	V	-	-	250

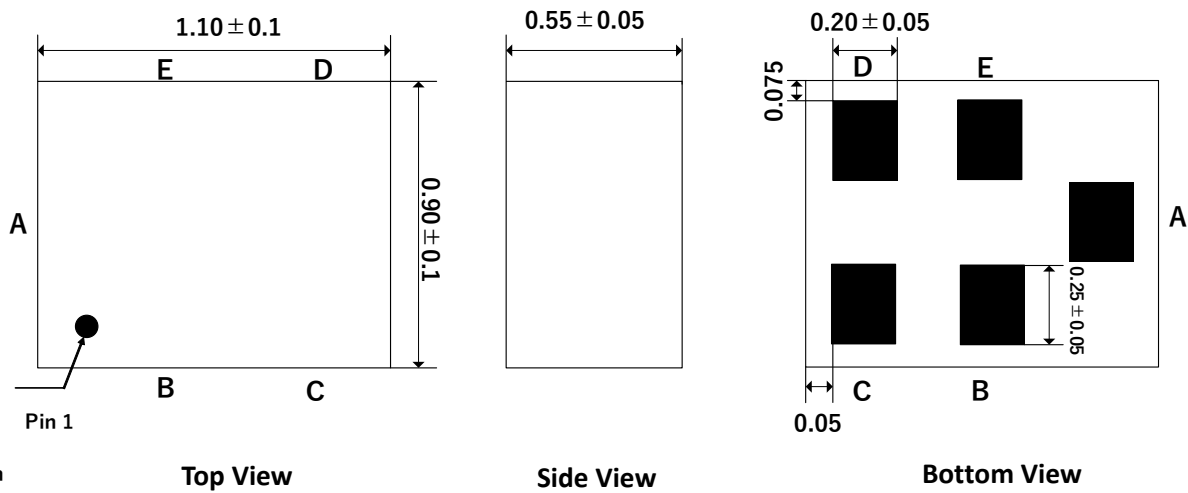
□ Electrical Characteristics

Electrical Specification

Parameters Description			Characteristics			Unit	Note
			-30 to +85 deg.C				
			Min	Typ*	Max		
Insertion Loss	1574.4 to 1576.4 MHz			1.1	1.6	dB	GPS L1
	1559.1 to 1563.1 MHz			1.3	1.9	dB	BD B1
	1573.4 to 1577.5 MHz			1.1	1.6	dB	Galileo E1
	1597.5 to 1605.9 MHz			1.4	1.8	dB	GLONASS G1
	1606.0 to 1610.0 MHz			1.6	2.2	dB	
Amplitude Ripple		1559.1 to 1610.0 MHz		0.6	1.0	dB	
Group delay ripple		1559.1 to 1610.0 MHz		5	12	ns	
VSWR	ANT	1559.1 to 1610.0 MHz		1.5	2.0		
	RX	1559.1 to 1610.0 MHz		1.5	2.0		
Attenuation		638 to 698 MHz	37	41		dB	
		698 to 748 MHz	36	41		dB	
		777 to 798 MHz	36	41		dB	
		807 to 915 MHz	35	40		dB	
		925 to 960 MHz	35	40		dB	
		1427 to 1463 MHz	31	38		dB	
		1710 to 1800 MHz	34	40		dB	
		1910 to 1980 MHz	34	40		dB	
		2010 to 2025 MHz	34	40		dB	
		2300 to 2315 MHz	35	43		dB	
		2400 to 2483 MHz	36	45		dB	
		2496 to 2690 MHz	37	46		dB	
		2690 to 3000 MHz	38	47		dB	

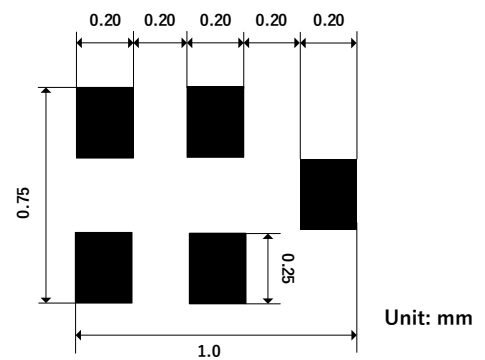
*Typical value at 25±2deg.C

Package Dimensions

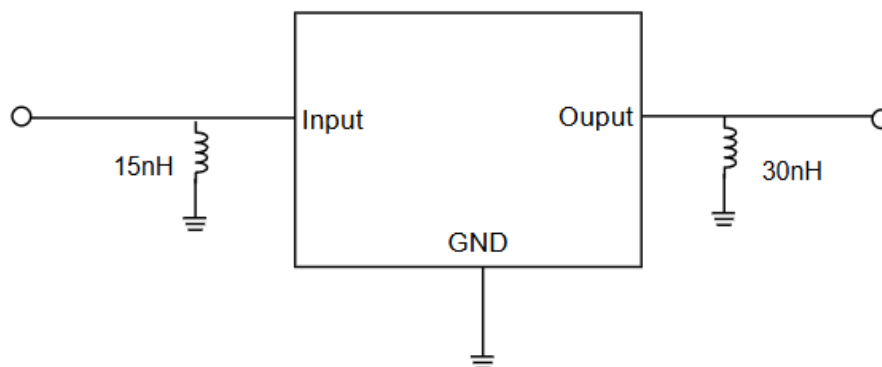


Pin Description	
B, C, E	Ground
A	Input
D	Output

Land Pattern

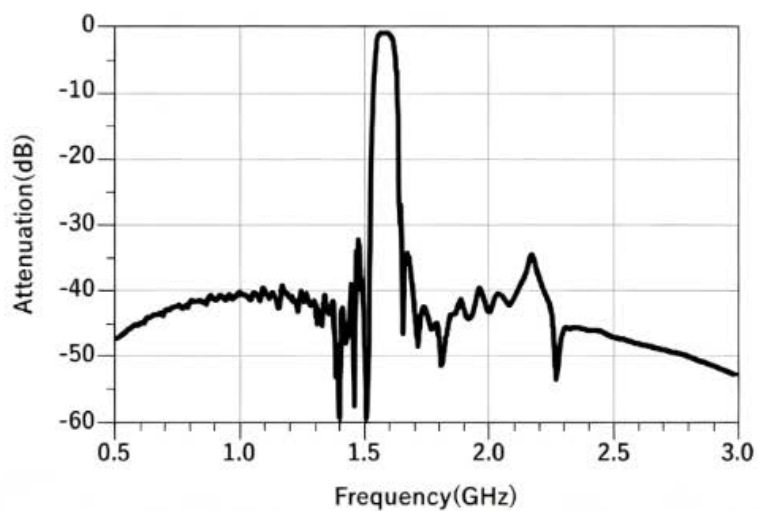
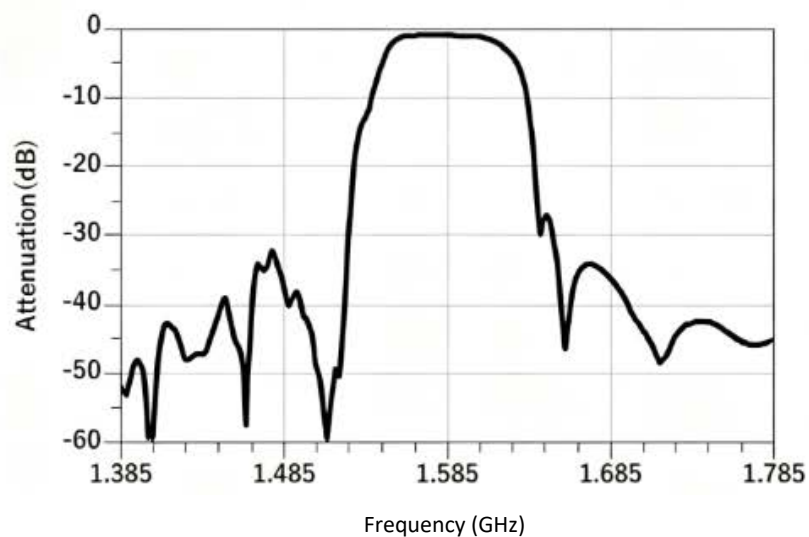
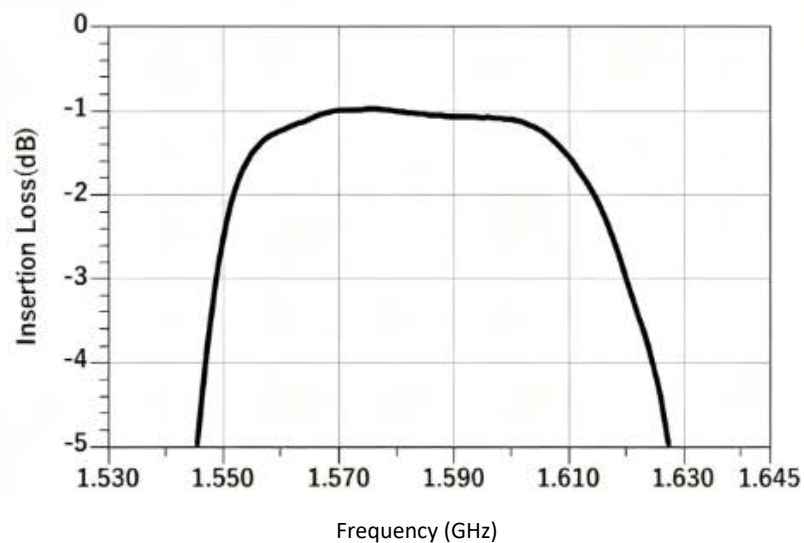


Testing Environment



Source & Load Impedance: $50\ \Omega$

□ Frequency Characteristics



□ Frequency Characteristics

