SK3520S

MSL 3 Device

GPS+GLONASS+BEIDOU, RF SAW Filter
Unbalanced / 4 pin / 0907
Rev 1.1

- ESD Ratings
- Electrical Characteristics
- Package Dimensions
- Testing Environment
- Frequency Characteristics
- Reflow Condition

❒ESD Ratings

Item	Rating	Value	Unit
$V_{(ESD-HBM)}$	ESD Voltage (HBM)	200	V
$V_{(ESD-CDM)}$	ESD Voltage (CDM)	200	V

❒ Electrical Characteristics

Maximum Ratings

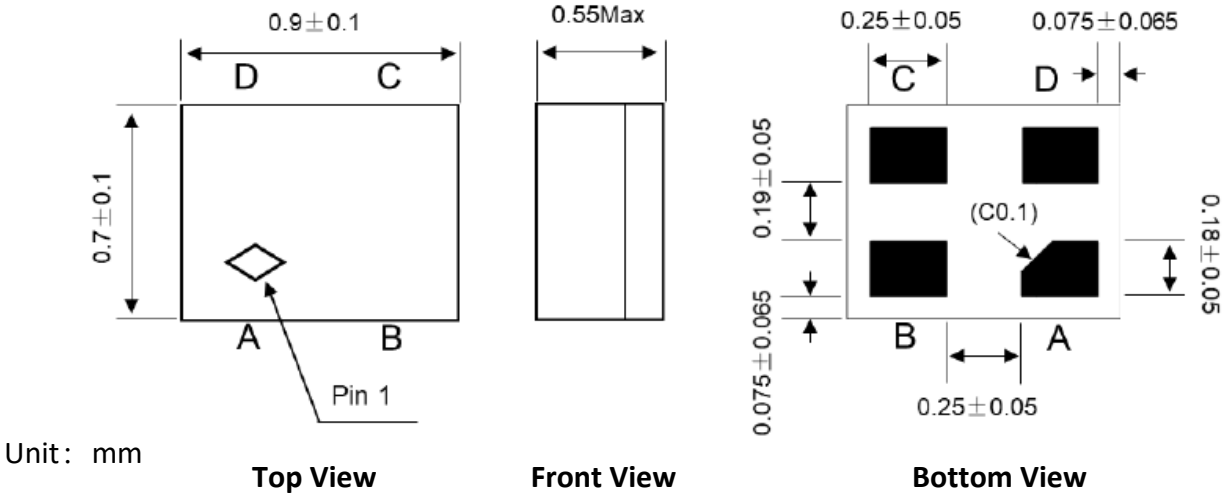
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended)	Ω	-	50	-
Load Impedance (Single ended)	Ω	-	50	-
Length x Width	mm	-	0.9 x 0.7	-
Height	mm	-	-	0.55

Electrical Specification

Parameters Description		Unit	Characteristics			Note
			-30 to +85 deg.C			
			Min	Typ	Max	
Center Frequency (F_0)		MHz	1575			
Insertion Loss	1559.052 ~ 1563.14 MHz	dB		1.4	1.9	
	1574.42 ~ 1576.42 MHz	dB		1.1	1.3	
	1597.55 ~ 1605.89 MHz	dB		1.4	1.9	
Amplitude Ripple	1559.052 ~ 1563.14 MHz	dBp-p		0.5	1.0	
	1574.42 ~ 1576.42 MHz	dBp-p		0.1	0.4	
	1597.55 ~ 1605.89 MHz	dBp-p		0.5	1.0	
Group delay ripple	1597.55 ~ 1605.89 MHz	nsec		14	20	
Input VSWR	1559.052 ~ 1563.14 MHz			1.4	2.0	
	1574.42 ~ 1576.42 MHz			1.4	2.0	
	1597.55 ~ 1605.89 MHz			1.4	2.0	
Output VSWR	1559.052 ~ 1563.14 MHz			1.4	2.0	
	1574.42 ~ 1576.42 MHz			1.4	2.0	
	1597.55 ~ 1605.89 MHz			1.4	2.0	
Attenuation	10 ~ 960 MHz	dB	34	36		
	960 ~ 1463 MHz	dB	34	36		
	1710 ~ 1785 MHz	dB	37	43		
	1785 ~ 1990 MHz	dB	35	38		
	1990 ~ 2280 MHz	dB	34	37		
	2280 ~ 2400 MHz	dB	37	46		
	2400 ~ 2500 MHz	dB	37	47		
	2500 ~ 2700 MHz	dB	33	46		
	2700 ~ 3000 MHz	dB	30	43		
	3000 ~ 6000 MHz	dB	28	36		

Typical value at 25±2deg.C

❒ Package Dimensions

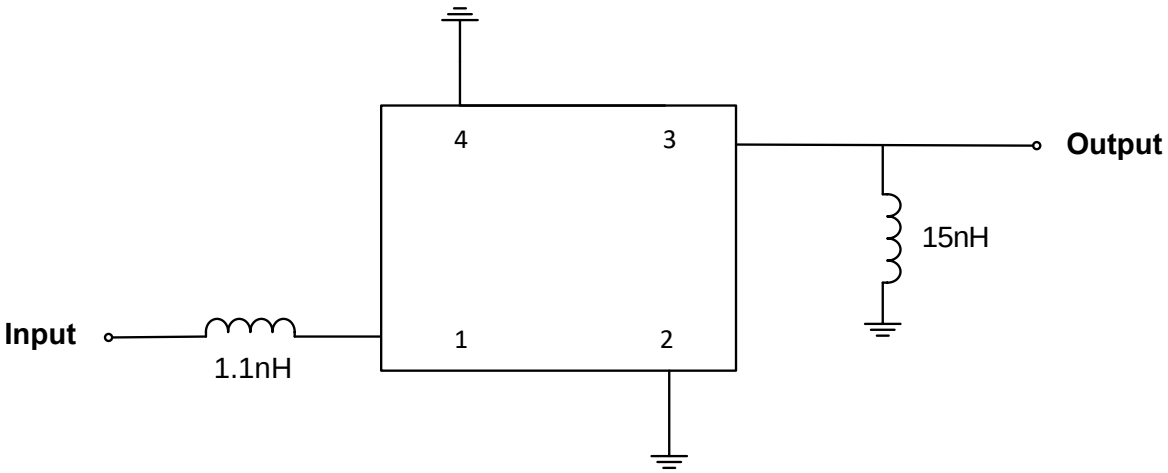


Unit: mm

Top View **Front View** **Bottom View**

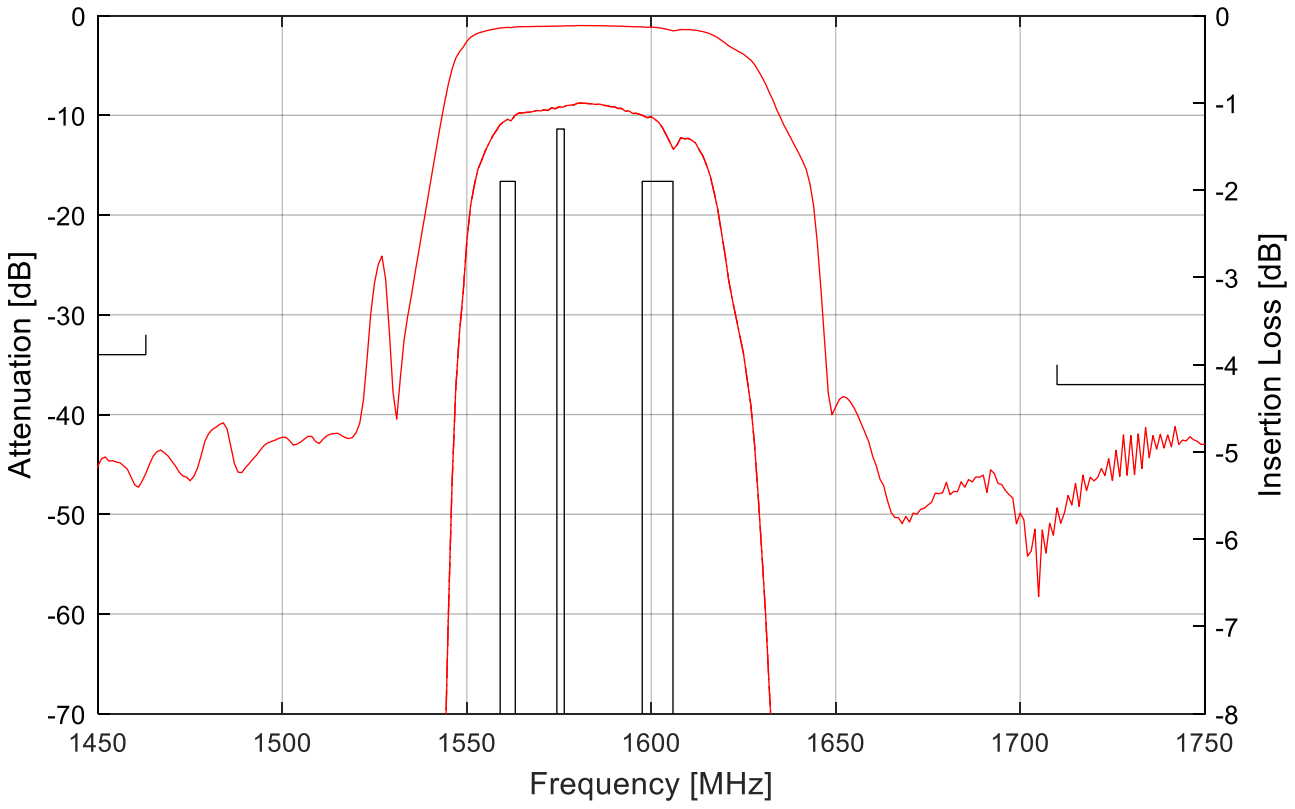
Pin Description	
1	Input
3	Output
2,4	Ground

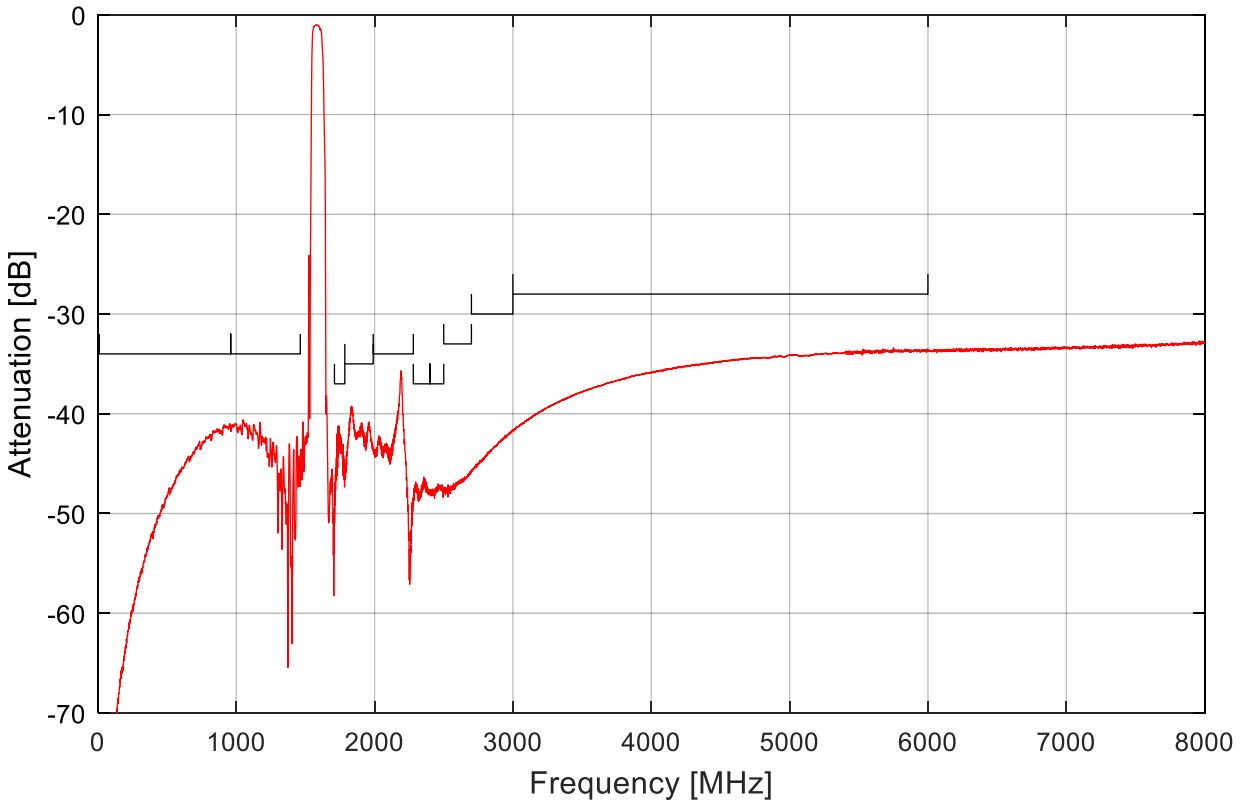
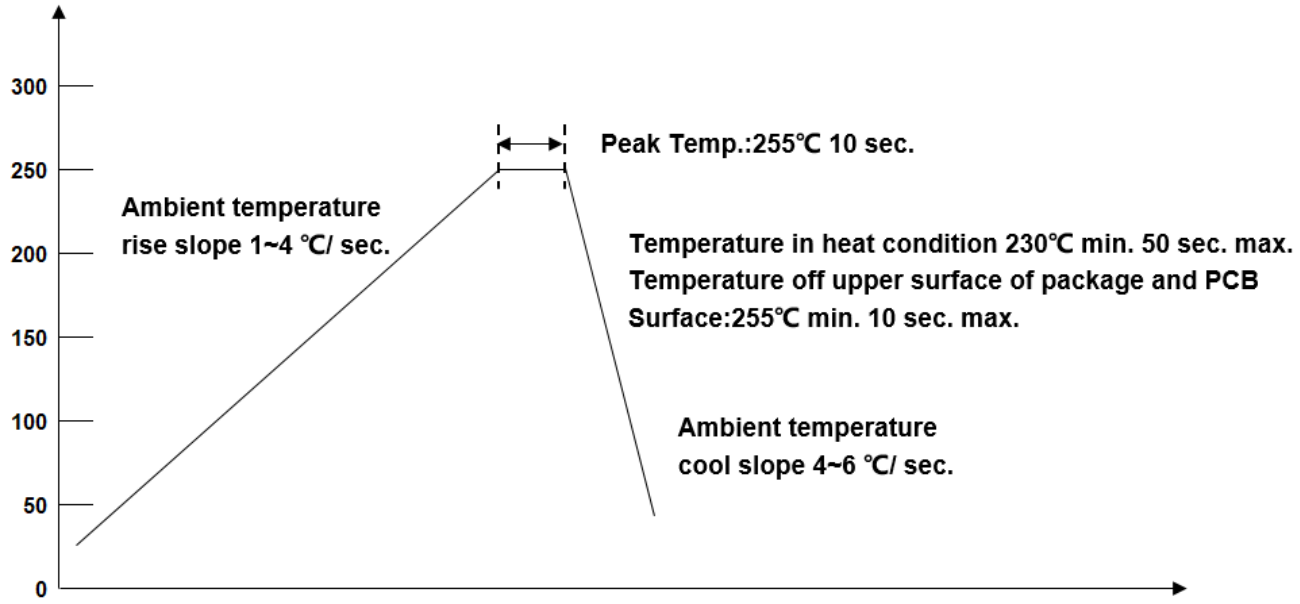
❒ Testing Environment



Source & Load Impedance: 50 Ω

❒ Frequency Characteristics





❒Reflow Condition