SK3525H

MSL3 Device

GPS L2+L5, RF SAW Filter
Unbalanced / 5pin / 1109

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

❒ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+125
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	13
Source Impedance (Unbalanced) (1)	Ω	-	50 // 4nH	-
Load Impedance (Unbalanced) (1)	Ω	-	50 // 4nH	-
Package size				
Length x Width	mm²	-	1.1 x 0.9	-
Height	mm	-	-	0.55

Note (1): With Matching Network .

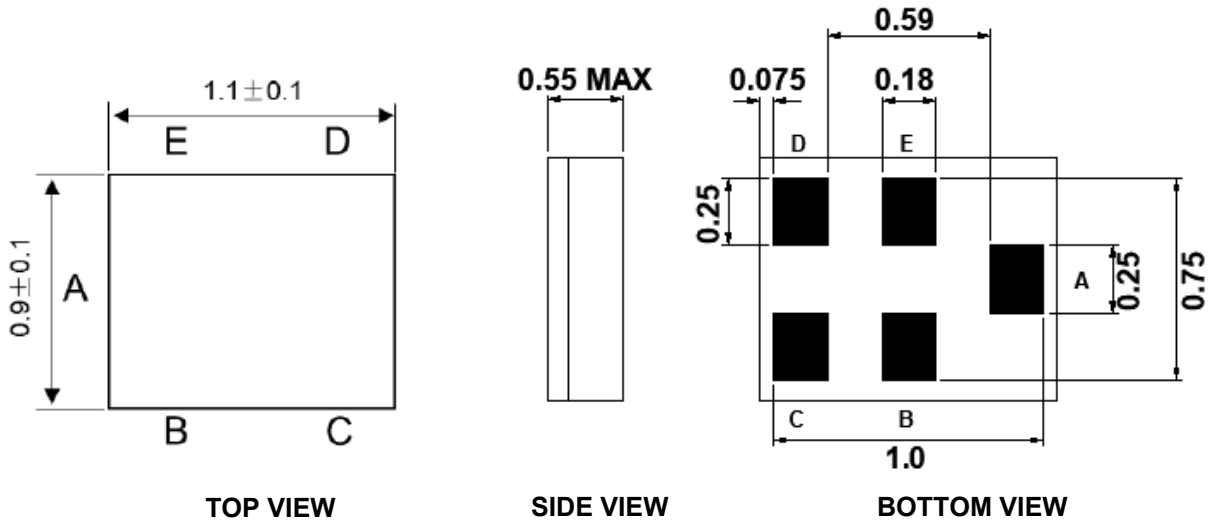
❒ Electrical Characteristics

Electrical Specification

Parameters Description		Unit	Minimum	Typical	Maximum
Center Frequency (Fo)		MHz	-	1207.5	-
Insertion Loss	**1166.22~1205.094 MHz**	dB	-	2.3	3.0
	1205.094~1226.577 MHz	dB	-	1.9	3.0
	1226.577~1228.623 MHz	dB	-	1.9	3.0
	1228.623~1249.136 MHz	dB	-	2.5	3.5
Amplitude Ripple	**1166.22~1205.094 MHz**	dBp-p	-	1.0	1.8
	1205.094~1226.577 MHz	dBp-p	-	0.5	1.0
	1226.577~1228.623 MHz	dBp-p	-	0.2	1.0
	1228.623~1249.136 MHz	dBp-p	-	0.6	1.5
VSWR within 1166.22~1249.136 MHz			-	1.7	2.1
Group Delay Ripple	**1166.22~1205.094 MHz**	ns	-	12	30
	1205.094~1226.577 MHz	ns	-	2	8
	1226.577~1228.623 MHz	ns	-	1	10
	1228.623~1249.136 MHz	ns	-	3	20
Attenuation:					
698 ~ 748 MHz		dB	35	41	-
807 ~ 915 MHz		dB	28	32	-
925 ~ 960 MHz		dB	27	31	-
1427 ~ 1463 MHz		dB	25	28	-
1626.5 ~ 1660.5 MHz		dB	28	34	-
1695 ~ 1785 MHz		dB	20	35	-
1850 ~ 2025 MHz		dB	20	33	-
2300 ~ 2690 MHz		dB	27	31	-
3400 ~ 3800 MHz		dB	20	28	-
4400 ~ 4900 MHz		dB	20	25	-
5150 ~ 5925 MHz		dB	20	25	-
Temperature coefficient		ppm/℃	-36		

Notes: Temperature range for specification : -30℃ to +85℃

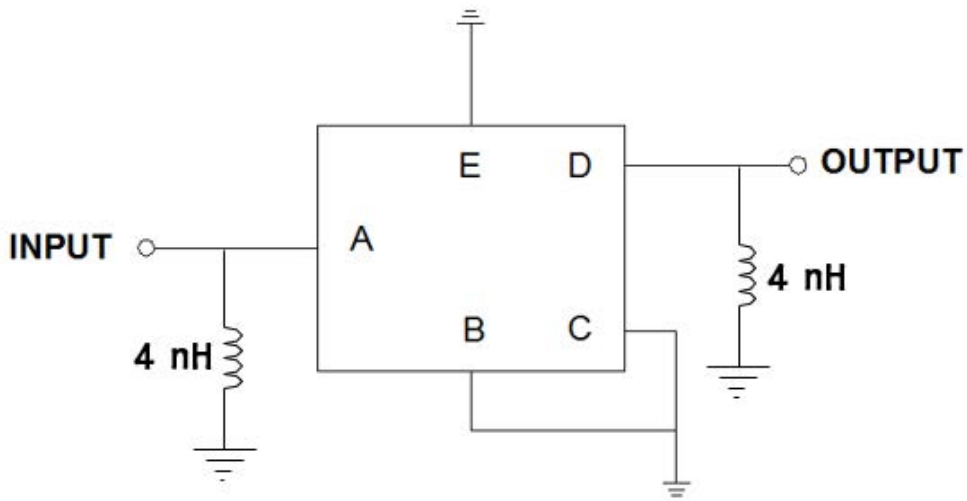
❒ Package Dimensions



TOP VIEW SIDE VIEW BOTTOM VIEW

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

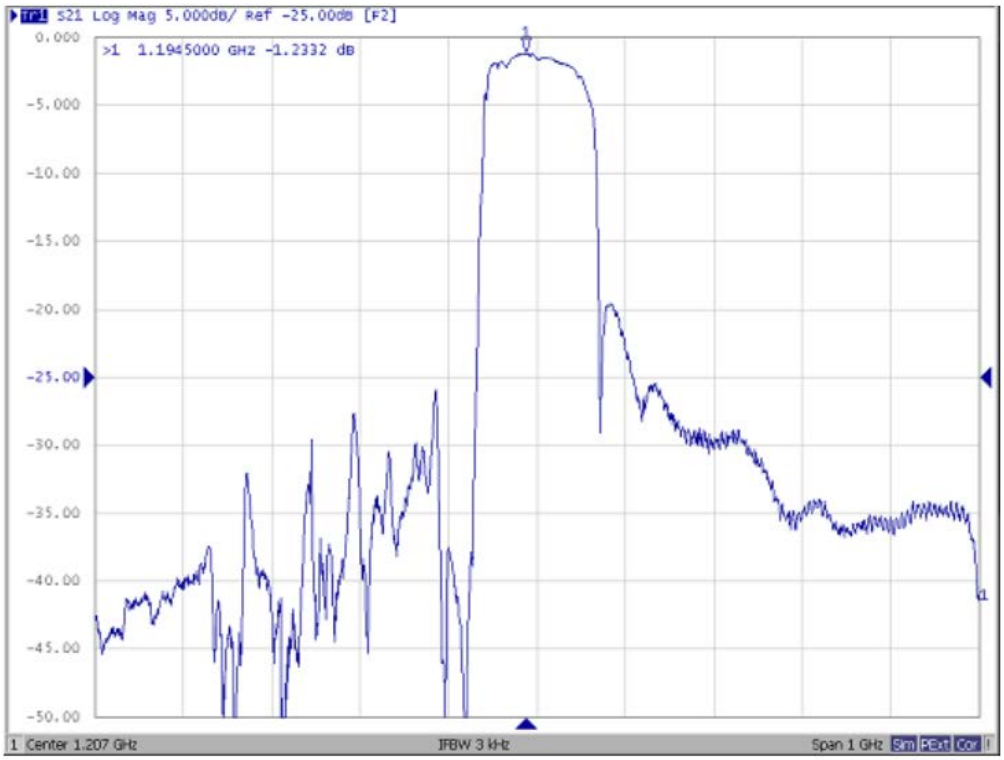
❒ Testing Environment

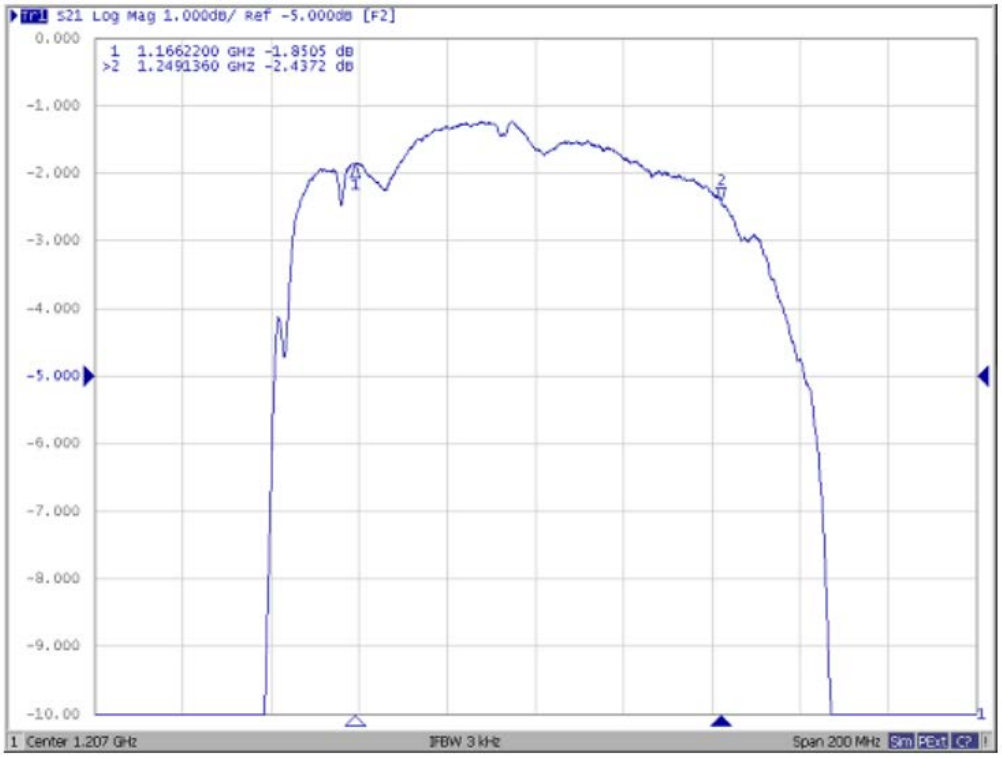


Source & Load Impedance: 50 Ω

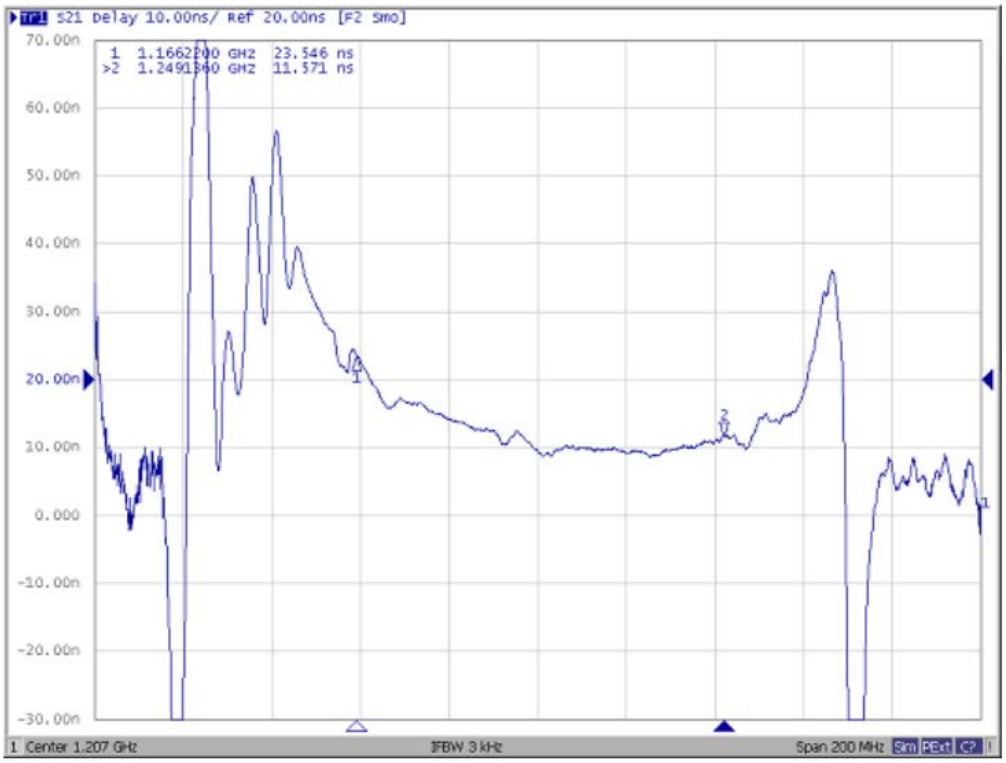
❒ Frequency Characteristics

Frequency Response

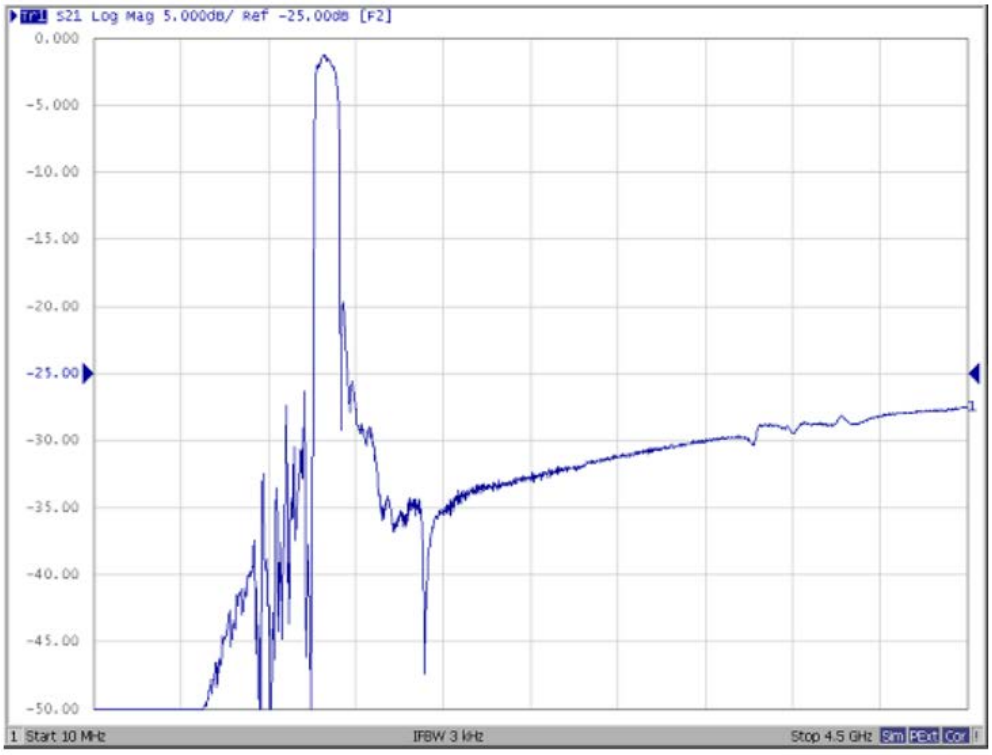




Group Delay

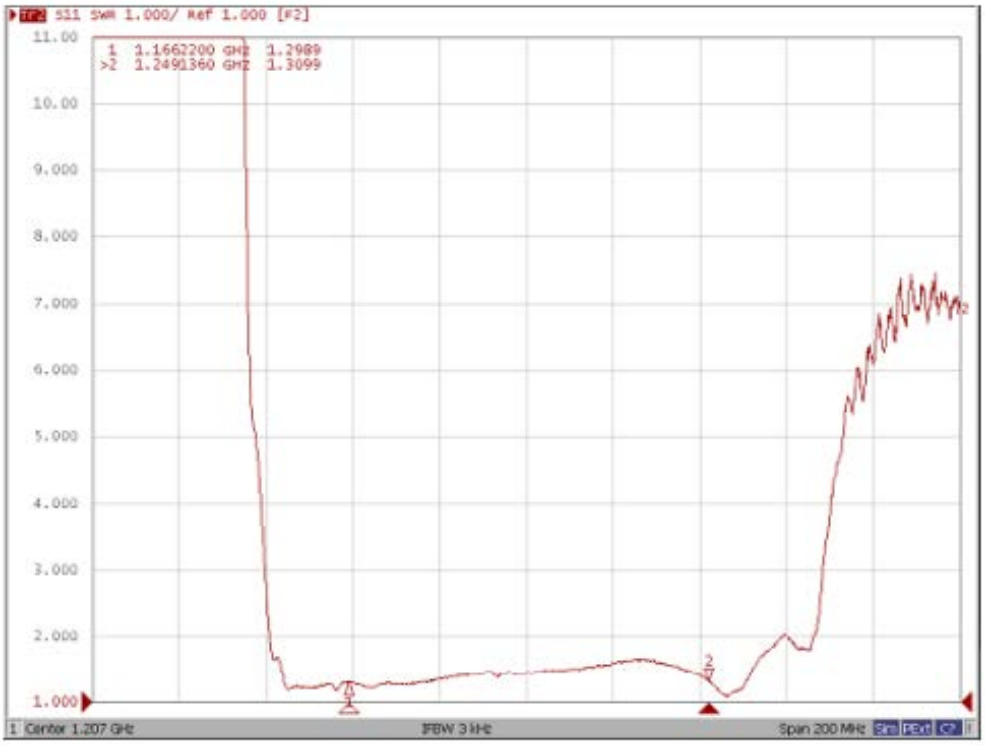


Wide Span

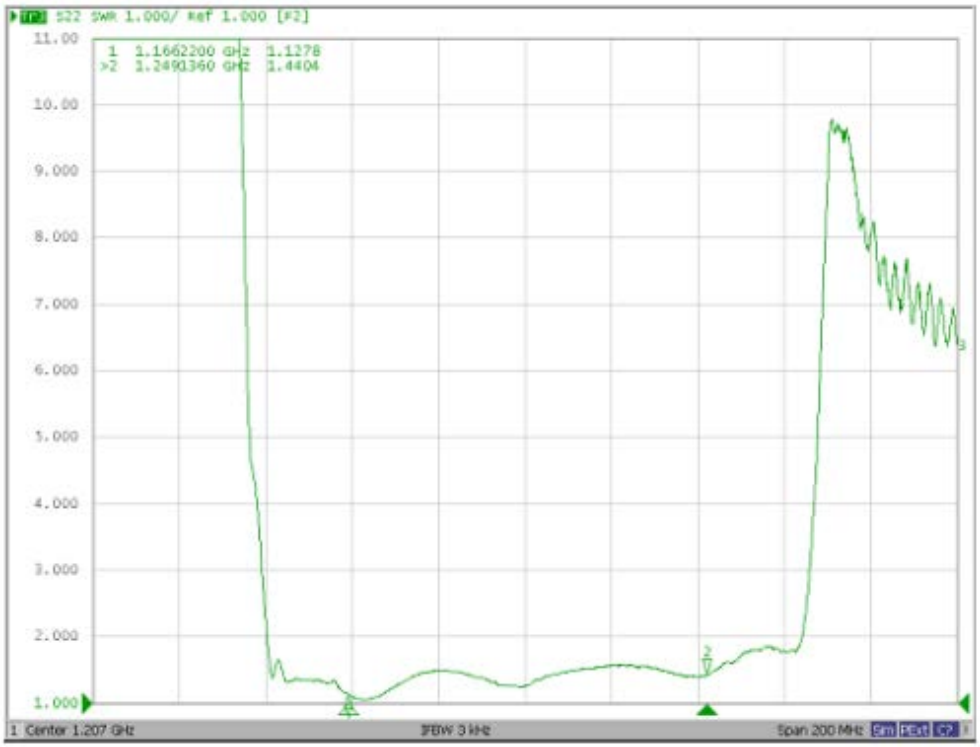


VSWR

Input Port

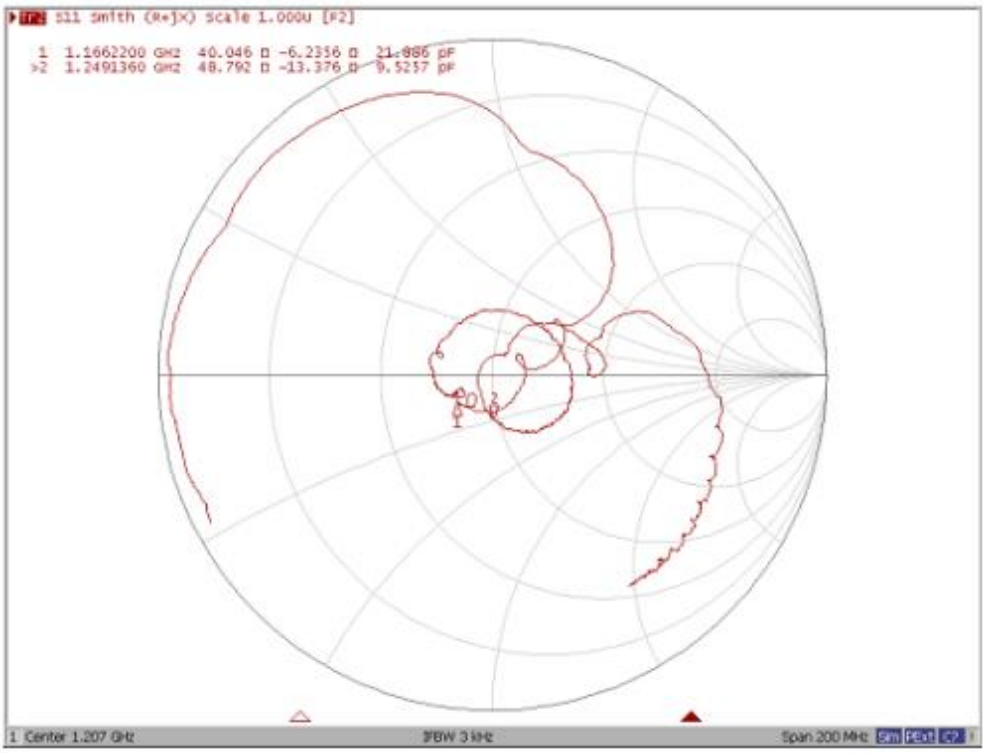


Output Port



Smith Chart

Input Port



Output Port