
SK3010RE

Band1, RF-Rx SAW Filter
Unbalanced / 5pin / 1109
Rev 2.1

MSL 3 Device



- ☐ **Electrical Characteristics**
 - ☐ **Package Dimensions**
 - ☐ **Testing Environment**
 - ☐ **Frequency Characteristics**
 - ☐ **Reflow Condition**
-

□ 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(CW signal for 5000h, @55°C)	dBm	-	-	15
Length x Width	mm ²	-	1.1 x 0.9	-
Height	mm	-	0.55	-

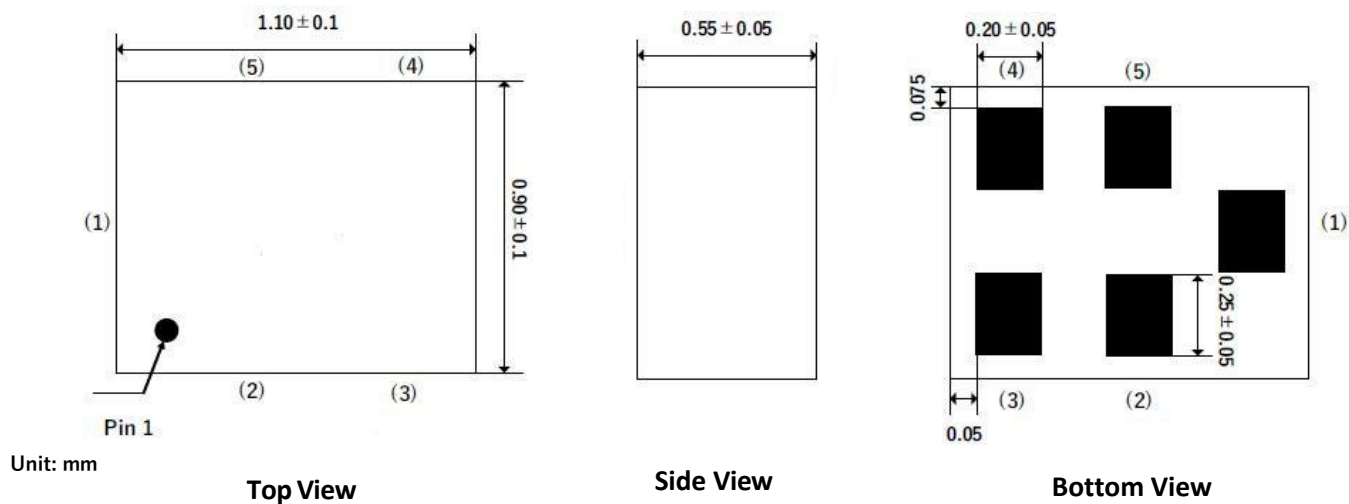
□ Electrical Characteristics

Electrical Specification

Parameters Description			Characteristics			Unit	Note
			-30 to +85 °C				
			Min	Typ ^(*)	Max		
Insertion Loss		2110 to 2170 MHz		1.4	2.0	dB	
Ripple		2110 to 2170 MHz		0.7	1.2	dB	
VSWR	RX	2110 to 2170 MHz		1.5	2.0		
	ANT	2110 to 2170 MHz		1.5	2.0		
Attenuation		450 to 699 MHz	34	40		dB	
		703 to 733 MHz	33	39		dB	
		718 to 748 MHz	32	38		dB	
		814 to 849 MHz	31	37		dB	
		880 to 915 MHz	30	36		dB	
		1710 to 1785 MHz	28	33		dB	
		1920 to 1980 MHz	31	35		dB	
		2300 to 2400 MHz	26	33		dB	
		2400 to 2500 MHz	25	32		dB	
		2500 to 2570 MHz	25	32		dB	
		2496 to 2690 MHz	25	32		dB	
		4220 to 4340 MHz	34	41		dB	
		4900 to 5950 MHz	30	37		dB	

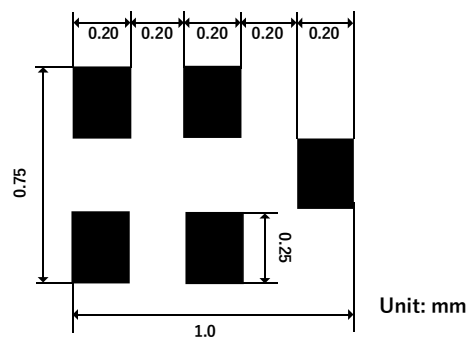
Note(*): Typical value at 25±2°C

Package Dimensions

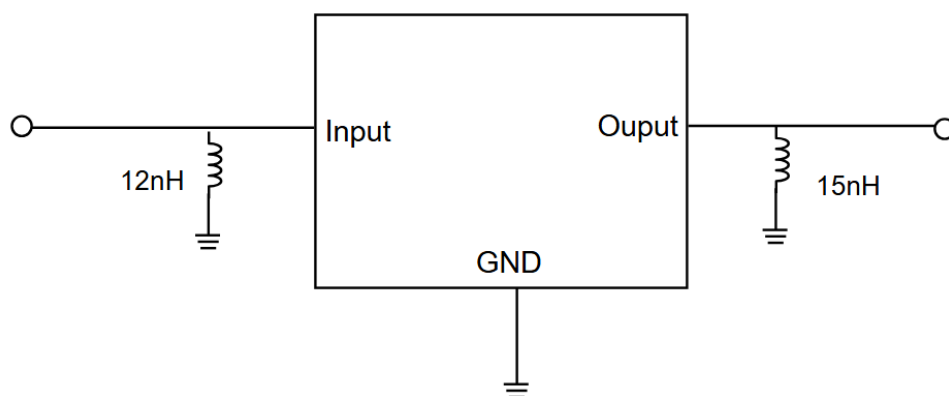


Pin Description	
2, 3, 5	Ground
1	Input
4	Output

Land Pattern



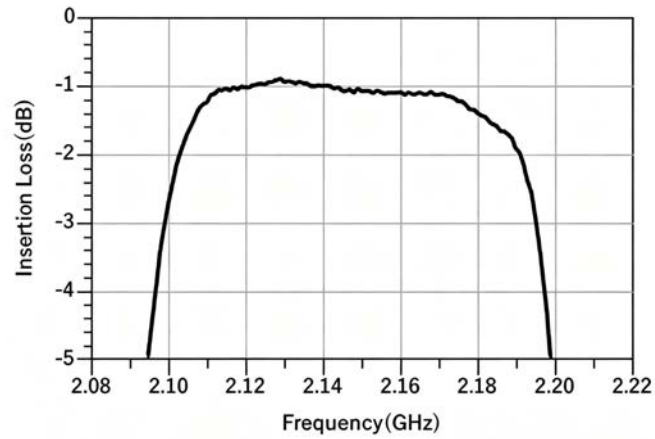
Testing Environment



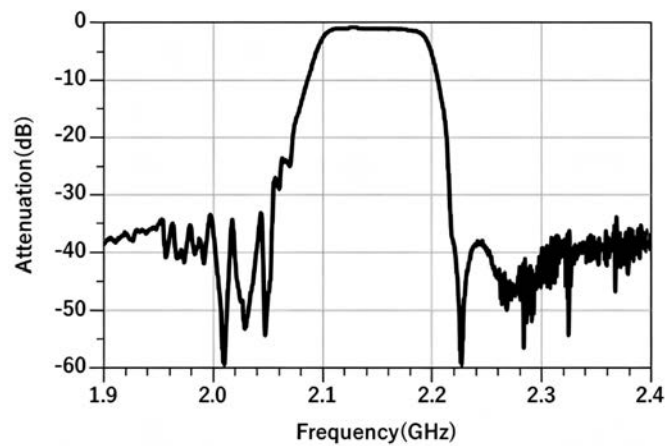
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

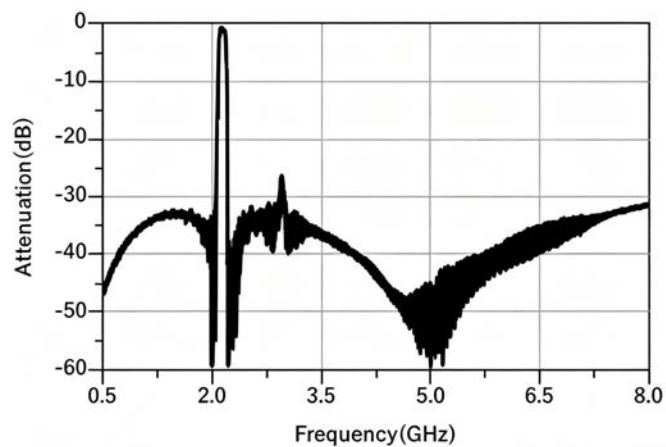
Passband



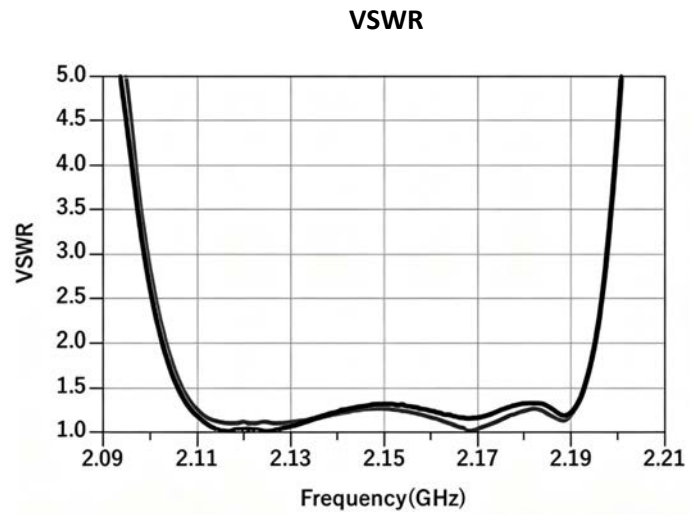
Narrowband



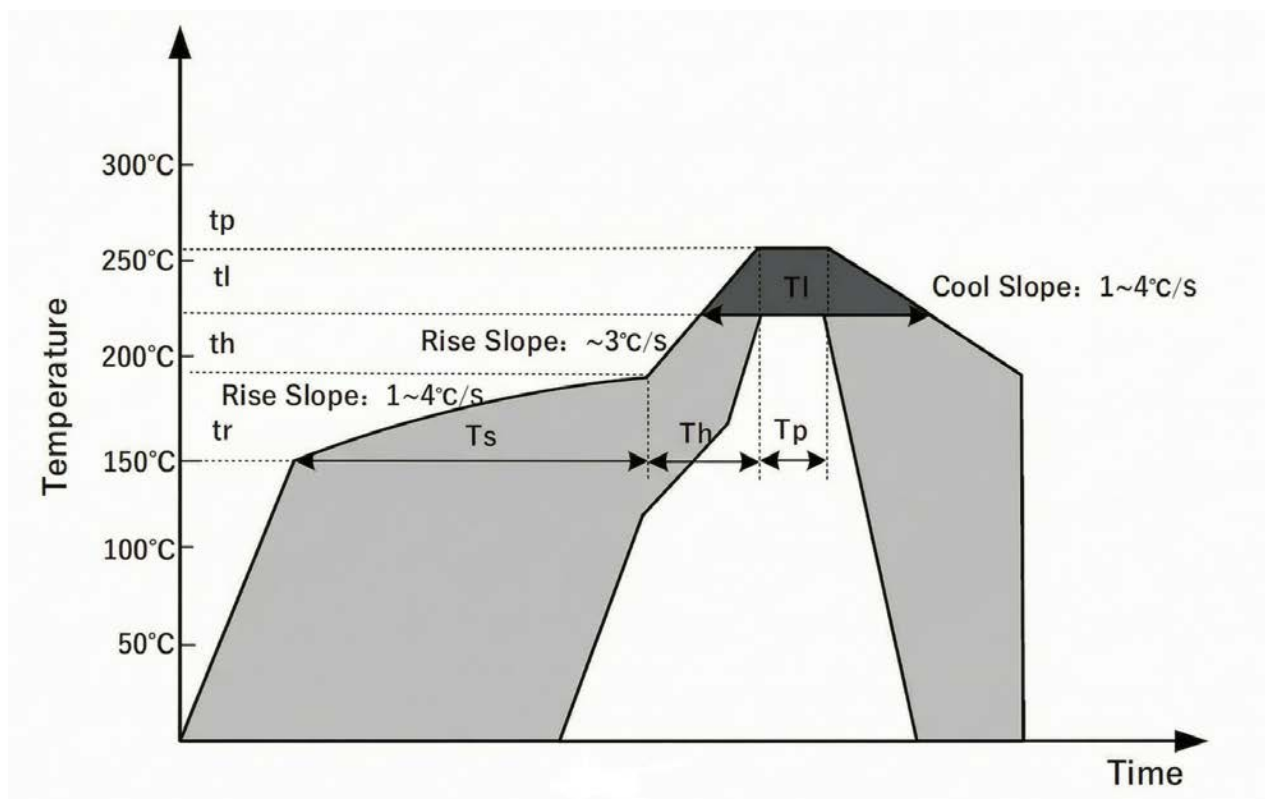
Wideband



□ Frequency Characteristics



□ Reflow Condition



Reflow Parameter	Values
Preheating time T_s	50 ~ 110s
Temperature t_r	~150°C
Time T_h	~30s
Temperature t_h	~180°C
Peak Time T_p	~10s
Peak Temperature t_p	~255°C min
Time T_l	~230°C
Temperature t_l	~50s max