



SK3050RE

Band5, Rx SAW Filter
Unbalanced / 5pin / 1109
Rev 1.02

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	-

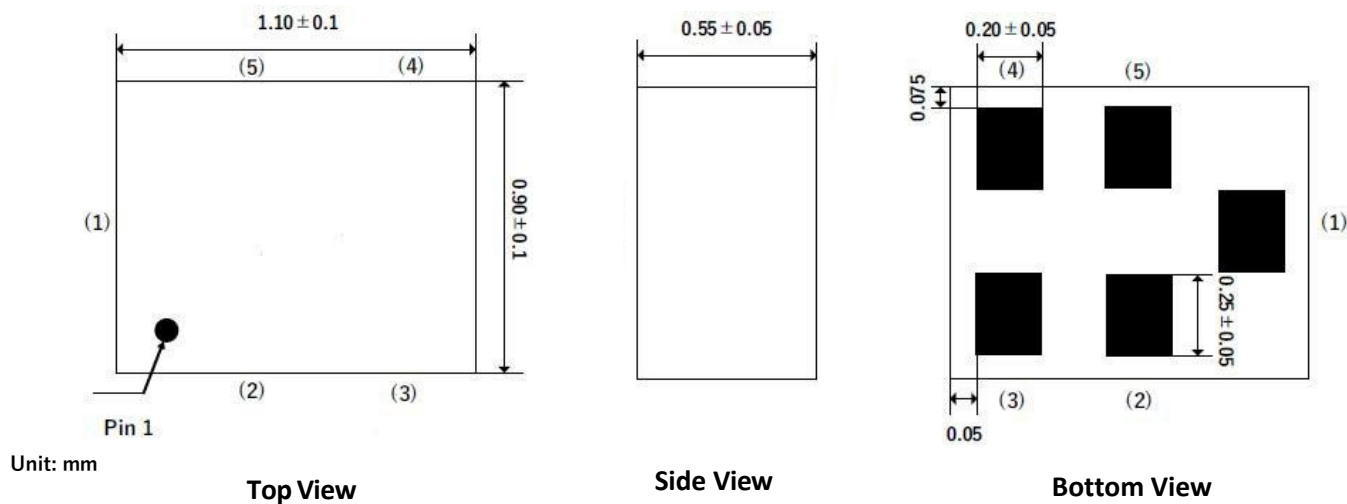
□ Electrical Characteristics

Electrical Specification

Parameters Description		Specifications			Unit	Note	
		-30°C~+85°C					
		Min.	Typ ^(*)	Max.			
Insertion Loss		869 to 894 MHz		1.2	2.1	dB	
Ripple		869 to 894 MHz		0.6	1.5	dB	
VSWR	RX	869 to 894 MHz		1.5	2.0		
	ANT	869 to 894 MHz		1.5	2.0		
Attenuation		600 to 804 MHz	30	37		dB	
		824 to 849 MHz	35	41		dB	
		1710 to 1785 MHz	37	44		dB	
		1738 to 1788 MHz	37	44		dB	
		1850 to 1915 MHz	40	46		dB	
		1880 to 1920 MHz	40	46		dB	
		1920 to 1980 MHz	40	47		dB	
		2010 to 2025 MHz	40	48		dB	
		2300 to 2400 MHz	40	53		dB	
		2305 to 2315 MHz	40	53		dB	
		2400 to 2500 MHz	40	54		dB	
		2496 to 2690 MHz	40	54		dB	
		2607 to 2682 MHz	40	54		dB	
		3300 to 3800 MHz	35	45		dB	
		4900 to 5950 MHz	32	37		dB	

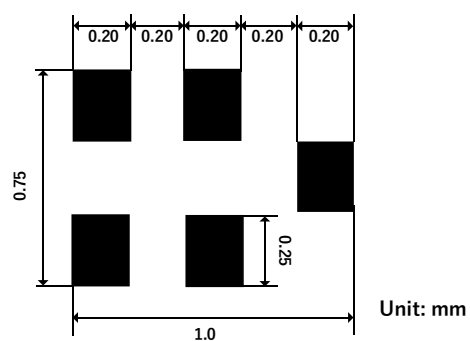
Note(*): Typical value at 25±2°C

Package Dimensions

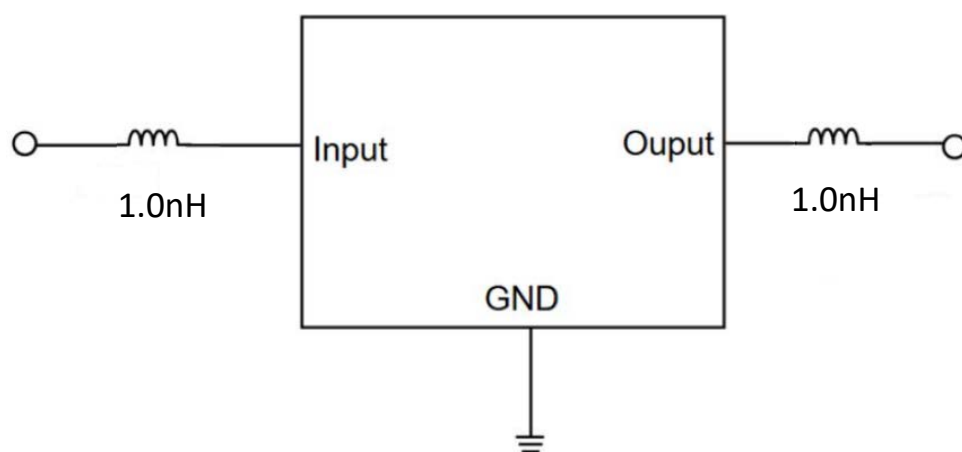


Pin Description	
2, 3, 5	Ground
1	Input
4	Output

Land Pattern



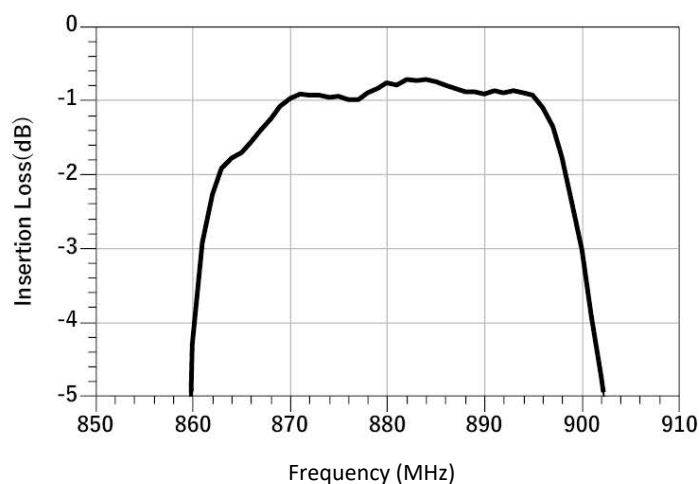
Testing Environment



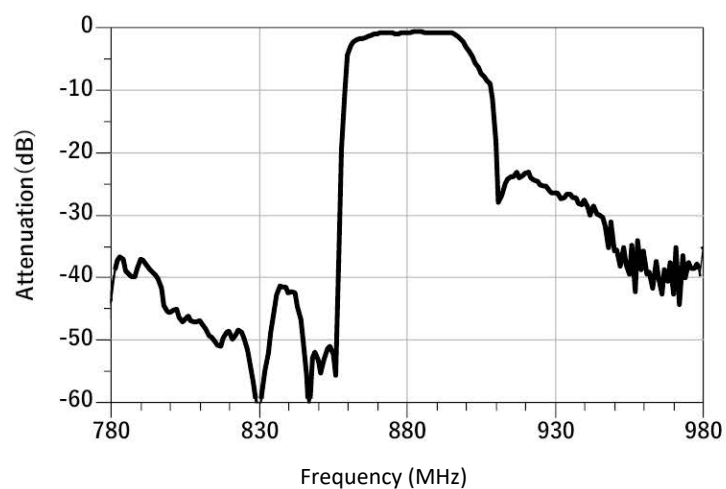
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

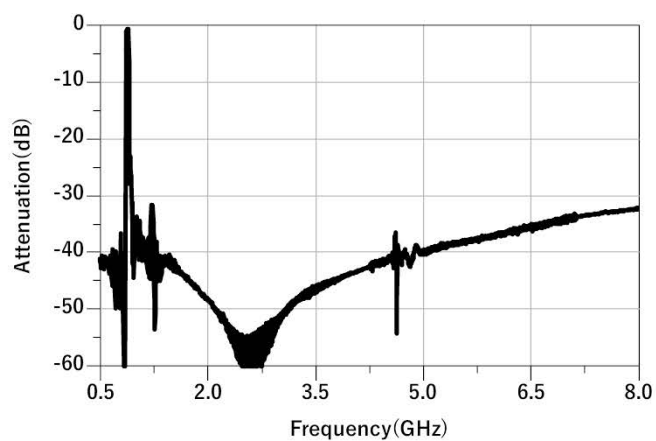
Passband



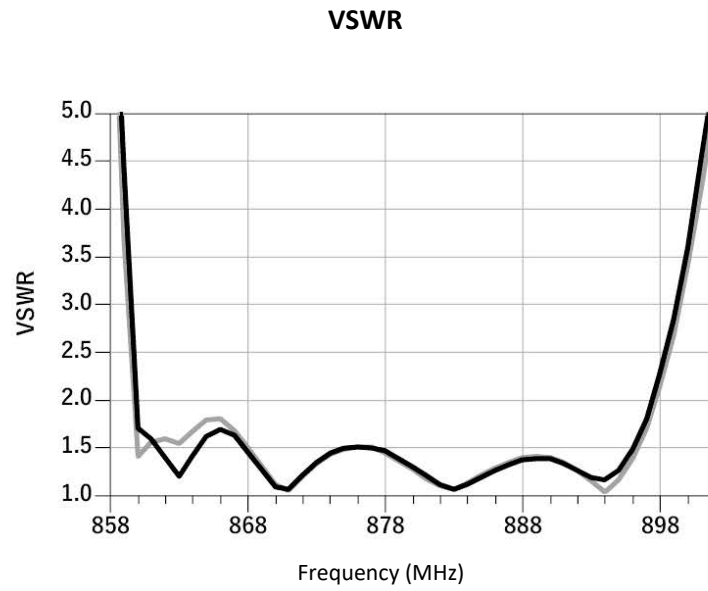
Narrowband



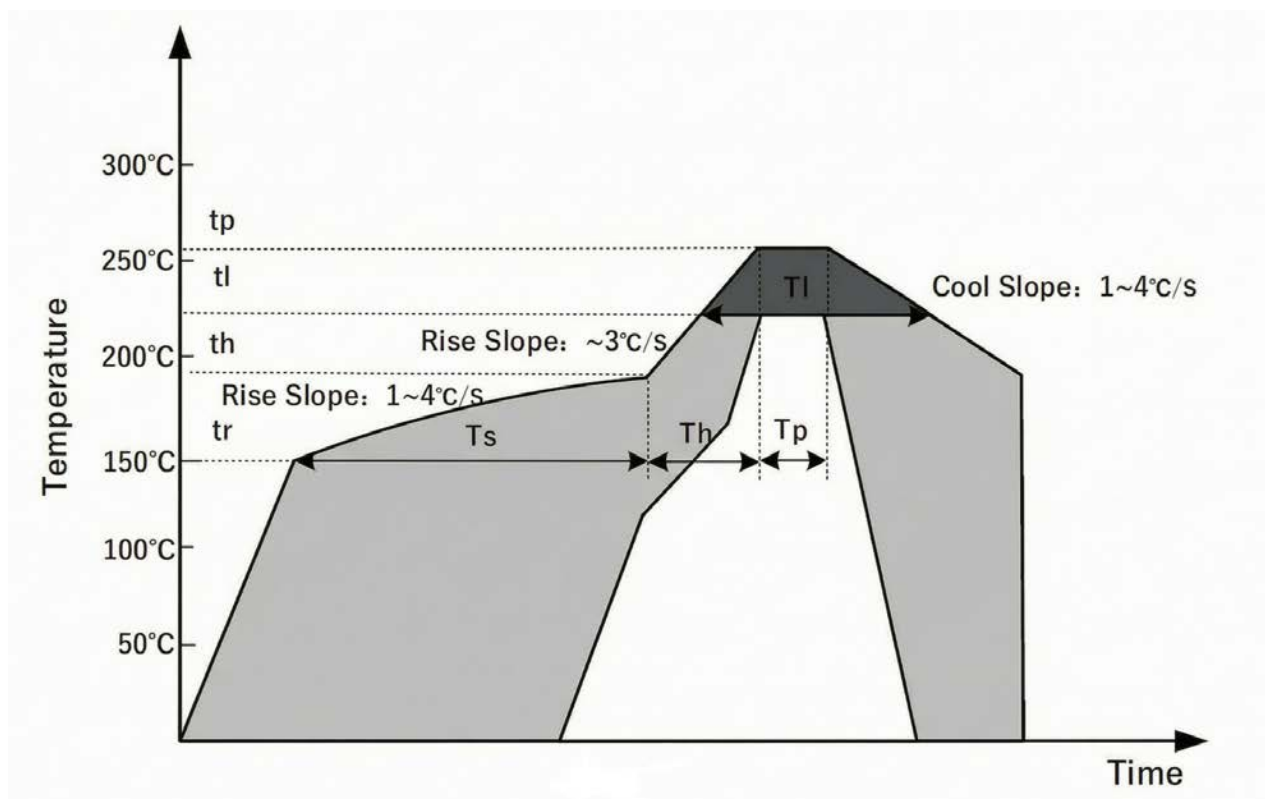
Wideband



□ Frequency Characteristics



□ Reflow Condition



Reflow Parameter	Values
$t_{050} \leq t_{050} \leq t_{050}$	σ
$t_{050} \leq t_{050} \leq t_{050}$	$^{\circ}\text{C}$
$t_{050} \leq t_{050} \leq t_{050}$	σ
$t_{050} \leq t_{050} \leq t_{050}$	$^{\circ}\text{C}$
$t_{050} \leq t_{050} \leq t_{050}$	$\sim 10\text{s}$
$t_{050} \leq t_{050} \leq t_{050}$	$\sim 255^{\circ}\text{C min}$
$t_{050} \leq t_{050} \leq t_{050}$	$\sim 230^{\circ}\text{C}$
$t_{050} \leq t_{050} \leq t_{050}$	$\sim 50\text{s max}$