SK3700S_E

MSL 3 Device

RoHS compliance Pb free

WI-FI 2.4G, Rx SAW Filter
5pin / 1109
Rev 2.1

❒Electrical Characteristics

❒Package Dimensions

❒Testing Environment

❒Frequency Characteristics

❒Reflow Condition

❒ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	-	+85
Storage Temperature Range	℃	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power(CW signal for 5000h, @55°C)	dBm	-	-	25
Length x Width	mm²	-	1.1 x 0.9	-
Height	mm	-	0.55	-
ESD-CDM	V	-	-	500
ESD-HBM	V	-	-	250

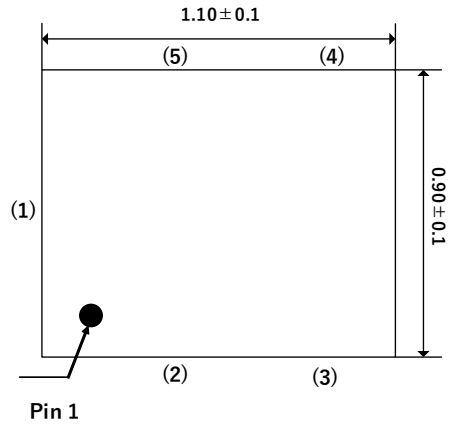
❒ Electrical Characteristics

Electrical Specification

Parameters Description		Specifications			Unit	Note
		-30°C~+85°C				
		Min.	Typ(*)	Max.		
Insertion Loss	2401 to 2483 MHz		1.5	2.4	dB[a)]	
Ripple	2401 to 2483 MHz		0.7	2.4	dB	
VSWR	2401 to 2483 MHz		1.5	2.2	dB	
Attenuation	600 to 859 MHz	25	31		dB	
	859 to 960 MHz	26	29		dB	
	960 to 1559 MHz	20	25		dB	
	1559 to 1606 MHz	21	26		dB	
	1710 to 1785 MHz	21	26		dB	
	1805 to 1880 MHz	21	26		dB	
	1930 to 1990 MHz	21	27		dB	
	2110 to 2200 MHz	22	27		dB	
	2300 to 2350 MHz	35	40		dB	
	2350 to 2370 MHz	8	36		dB	
	2530 to 2570 MHz	20	37		dB	
	2570 to 2690 MHz	25	30		dB	
	4800 to 5000 MHz	27	33		dB	
	7200 to 7500 MHz	35	45		dB	

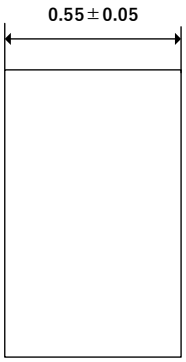
Note(*): Typical value at 25±2°C
dB[a)] Integrated Insertion Loss over 18MHz Bandwidth.

❒ Package Dimensions

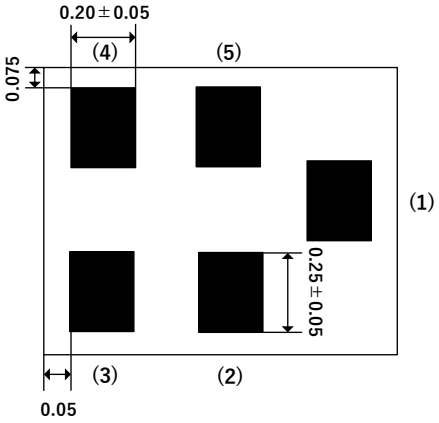


Unit: mm

Top View



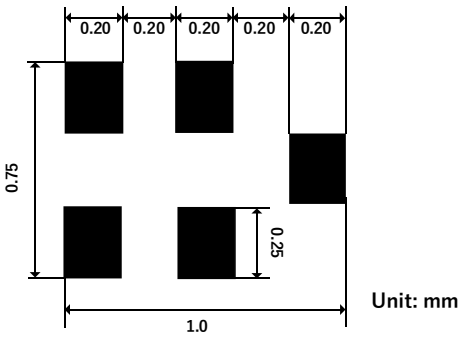
Side View



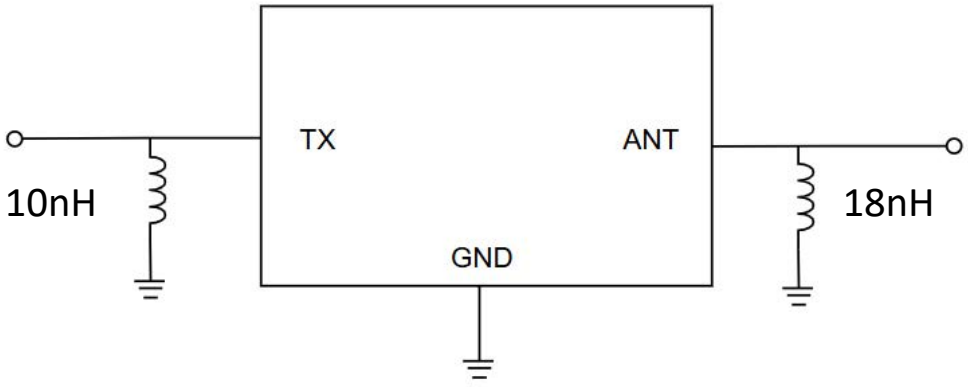
Bottom View

Pin Description	
2, 3, 5	Ground
1	TX Port
4	Ant Port

Land Pattern



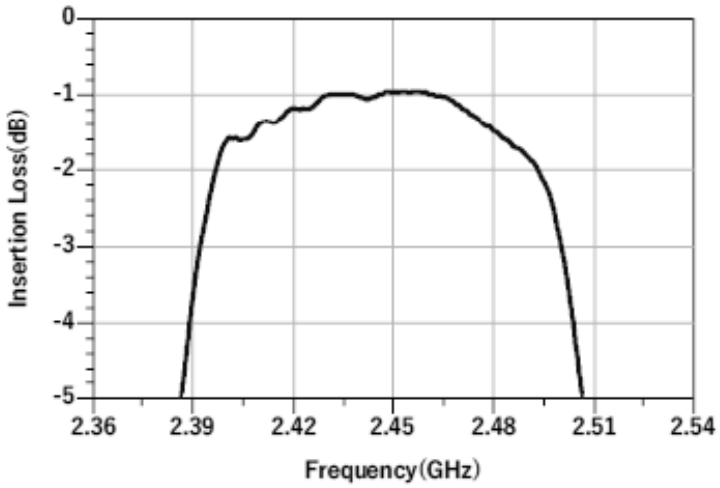
❒ Testing Environment



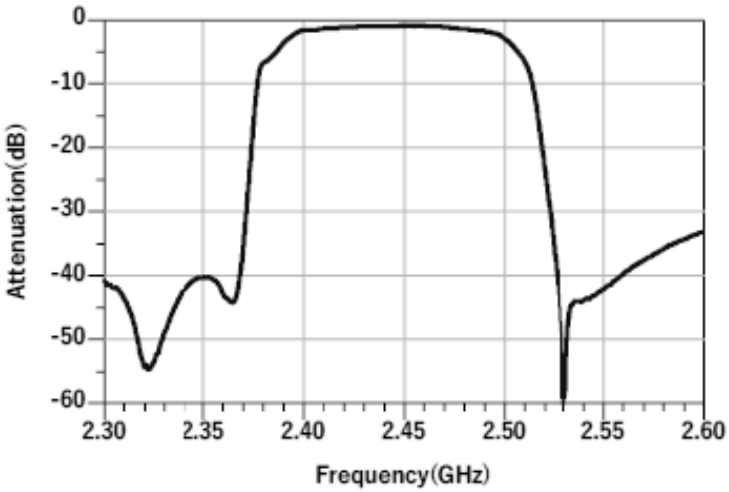
Source & Load Impedance: 50 Ω

❒ Frequency Characteristics

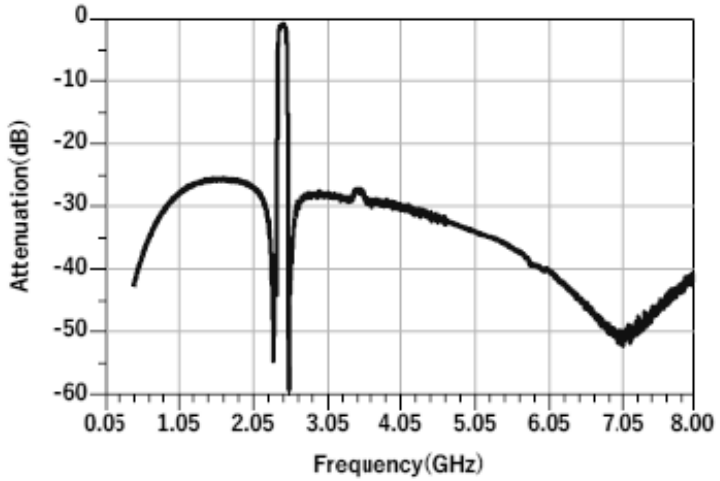
Passband



Narrowband

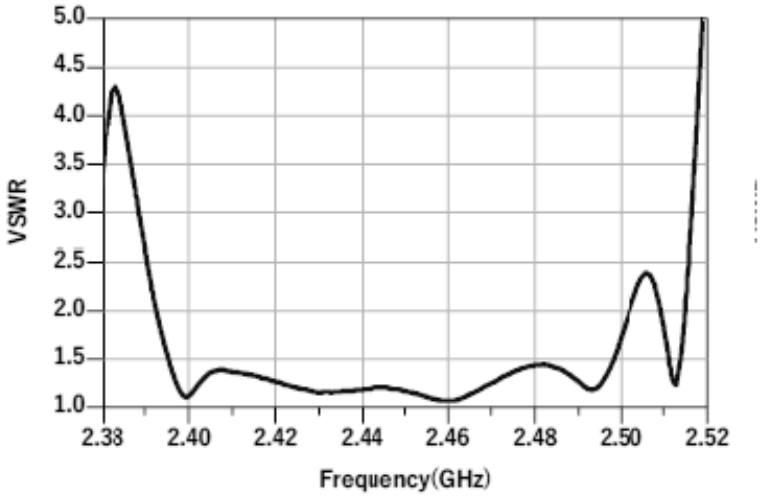


Wideband

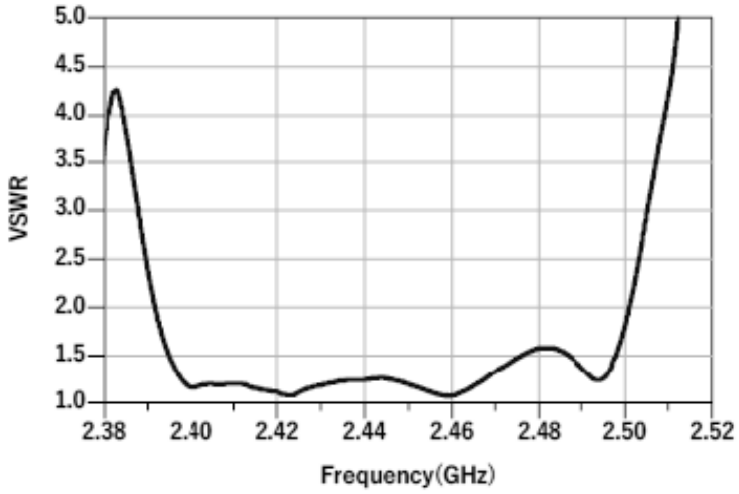


❒ Frequency Characteristics

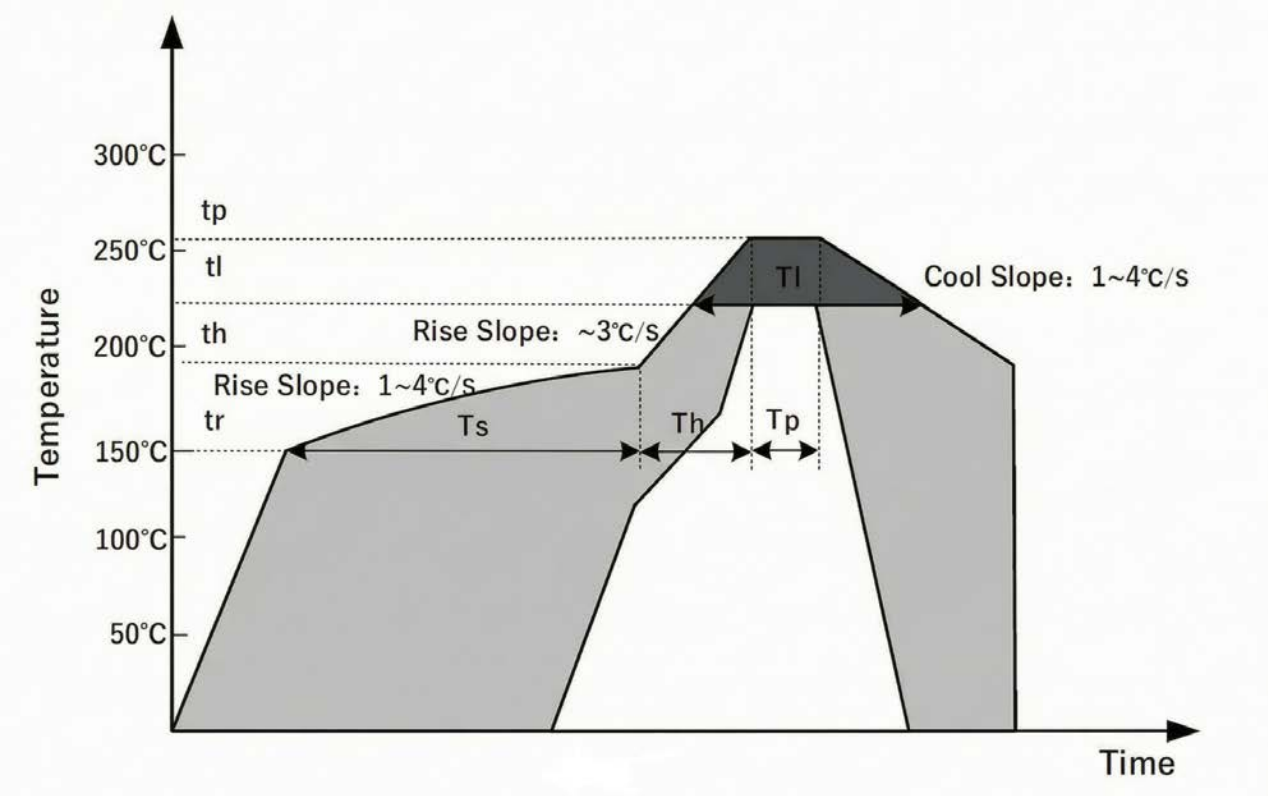
TX Port VSWR



ANT Port VSWR



❒ Reflow Condition



Reflow Parameter	Values
Preheating time Ts	50 ~ 110s
Temperature tr	~150°C
Time Th	~30s
Temperature th	~180°C
Peak Time Tp	~10s
Peak Temperature tp	~255°C min
Time Tl	~230°C
Temperature tl	~50s max