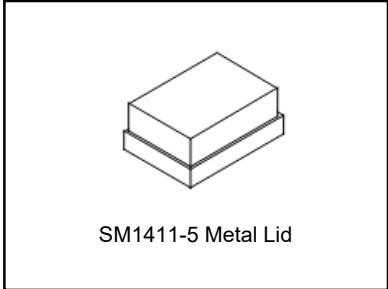


SF2504KM

**1189 MHz
SAW Filter**



MAXIMUM RATING:

- Input Power Level: 13 dBm (2000h)
- DC Voltage : 3 V
- Operating Temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- ESD Machine Mode : 50V
- ESD Human Body Mode : 100V
- Moisture Sensitive Level (MSL): Level 1
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS:

Temperature range for specification : $T_{spec} = -40^{\circ}\text{C}$ to $+105^{\circ}\text{C}$

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	1189	-
Insertion Loss (1164~1189 MHz)	IL dB	-	1.5	2.3 ⁽¹⁾
Insertion Loss (1164~1189 MHz)	IL dB	-	1.5	2.4
Insertion Loss (1189~1214 MHz)	IL dB	-	1.9	2.4 ⁽¹⁾
Insertion Loss (1189~1214 MHz)	IL dB	-	1.9	2.5
Amplitude Ripple (1164~1189 MHz)	dB _{p-p}	-	0.3	1.3
Amplitude Ripple (1189~1214 MHz)	dB _{p-p}	-	0.5	1.4
VSWR (1164~1214 MHz)		-	1.9	2.2
Group Delay Deviation (1189~1214 MHz)	ns	-	9	15 ⁽¹⁾
Group Delay Deviation (1189~1214 MHz)	ns	-	9	20
Attenuation (refer to 0 dB)				
100 ~ 814 MHz	dB	35	45	-
814 ~ 849 MHz	dB	33	46	-
849 ~ 980 MHz	dB	30	40	-
980 ~ 1010 MHz	dB	35	43	-
1010 ~ 100 MHz	dB	33	36	-
1100 ~ 130 MHz	dB	20	31	-

1250 ~ 1427	MHz	dB	25	32	-
1427 ~ 1463	MHz	dB	33	37	-
1710 ~ 2025	MHz	dB	32	35	-
2300 ~ 2690	MHz	dB	27	30	-
2690 ~ 3000	MHz	dB	24	28	-
3000 ~ 6000	MHz	dB	15	19	-
Temperature Coefficient		ppm/K	-	-36	-

(1). Temperature range -20°C to +85°C

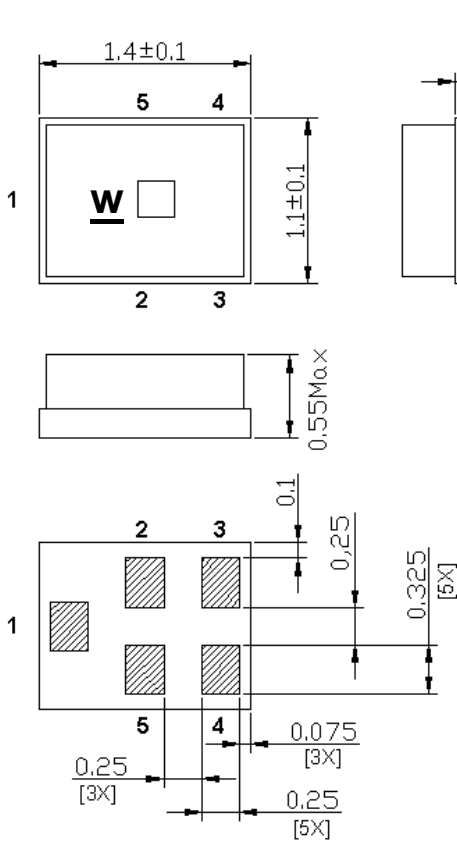


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. This component was always RoHS compliant from the first date of manufacture.

OUTLINE DRAWING:



w = Symbol Code

□ = Year Month

All tolerances are +/-0.05 mm unless otherwise specified

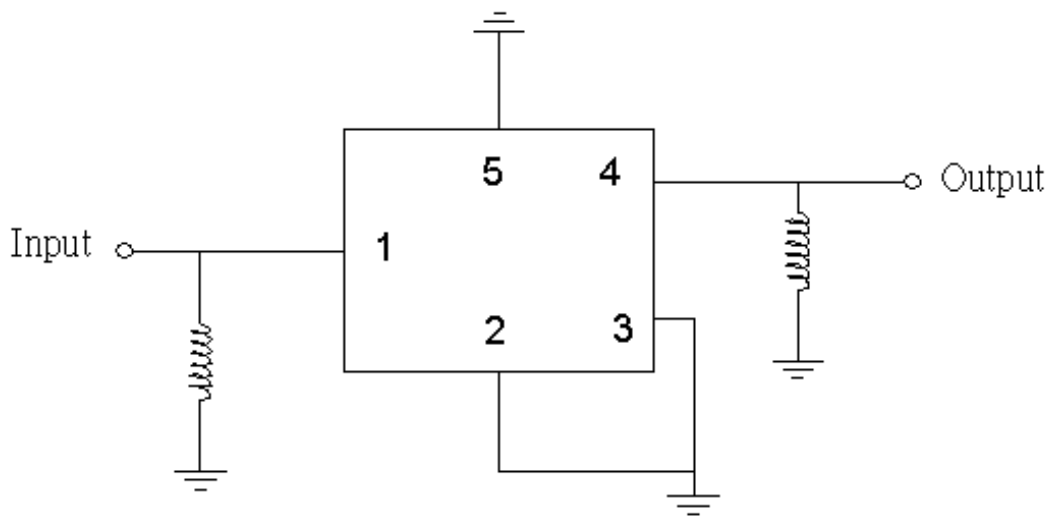
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

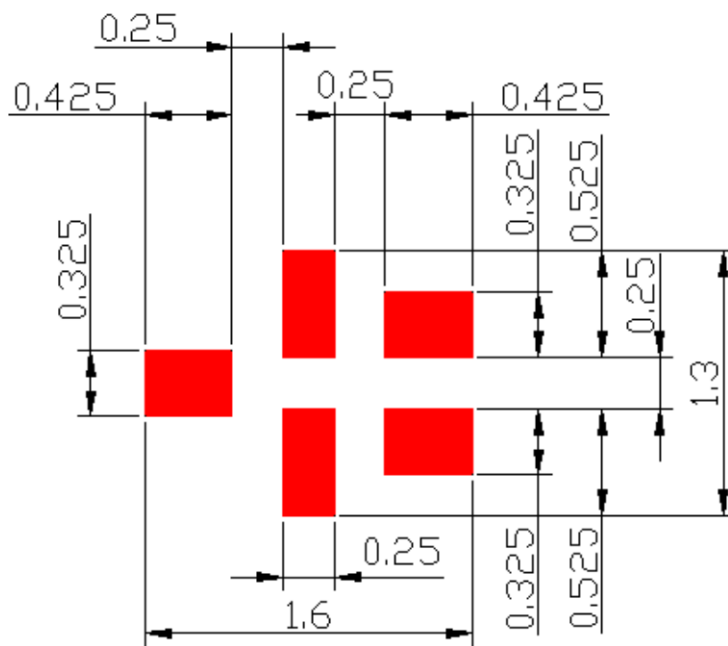
Unit : mm


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

MEASUREMENT CIRCUIT

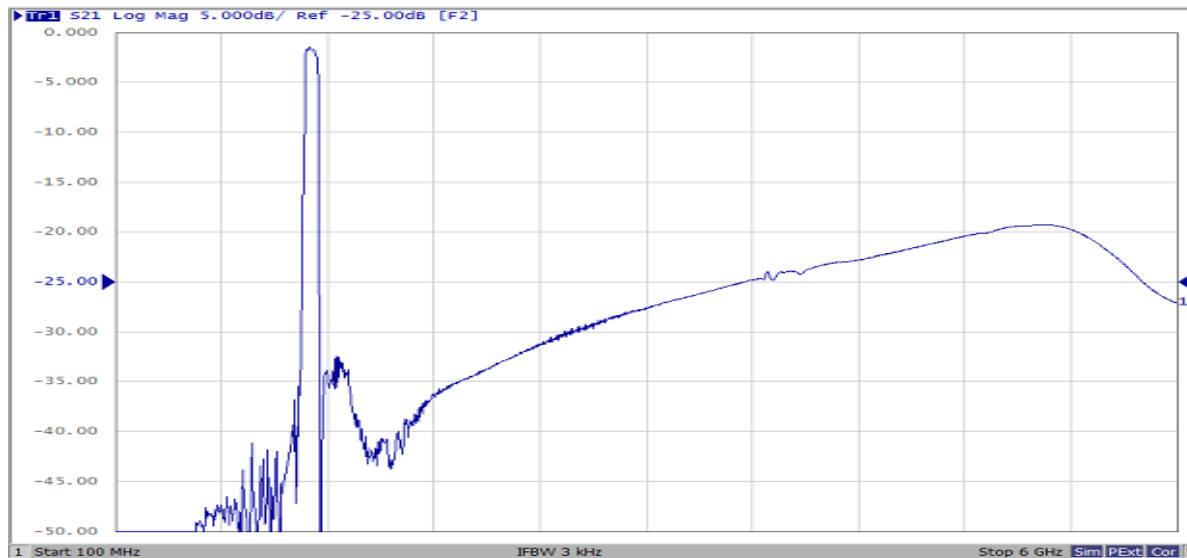
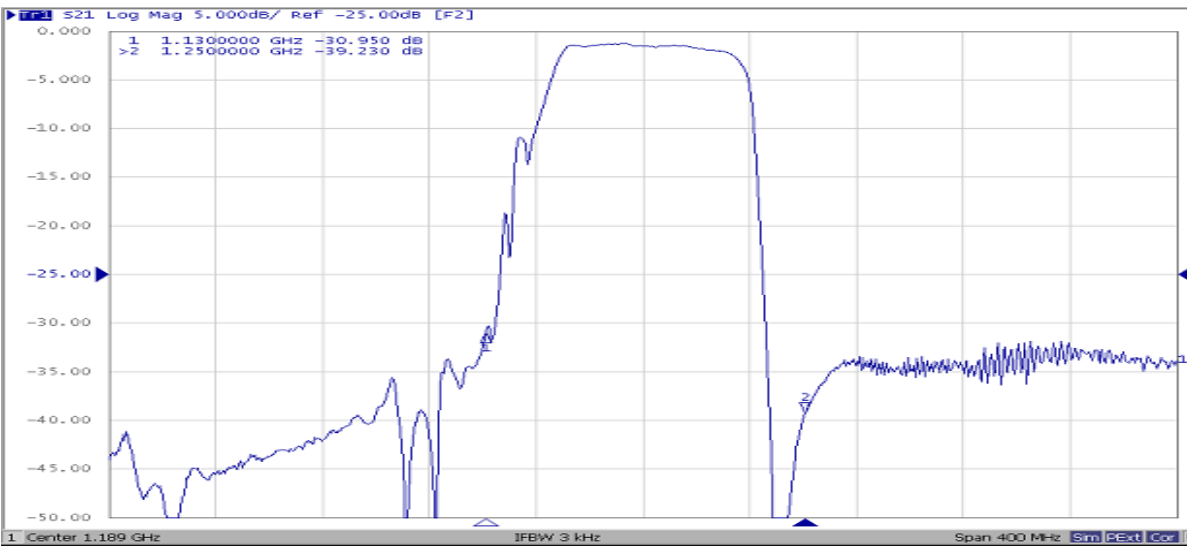
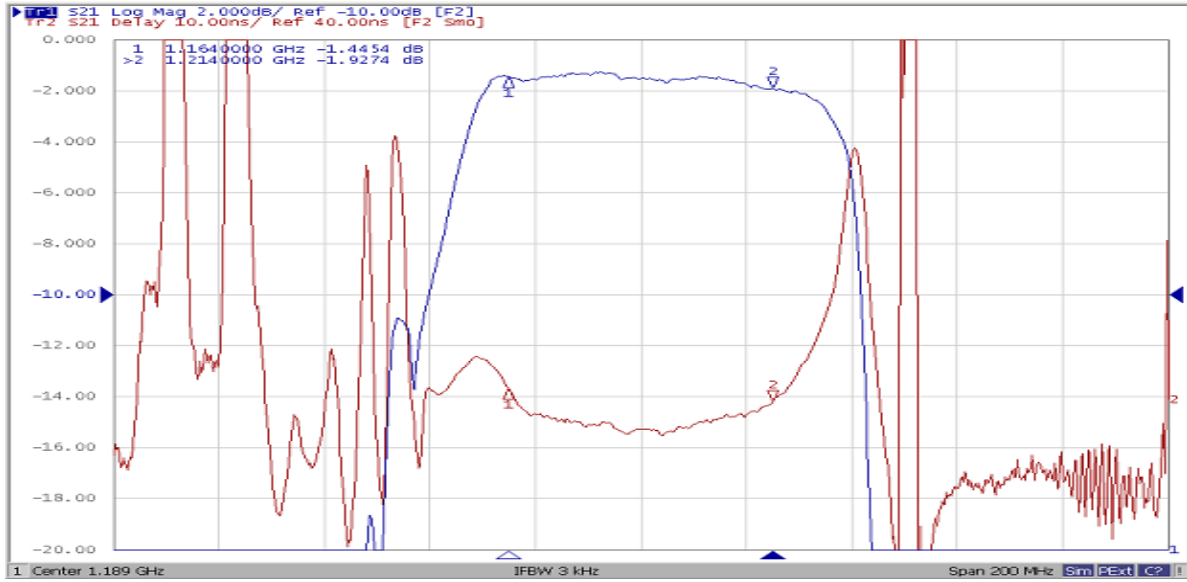


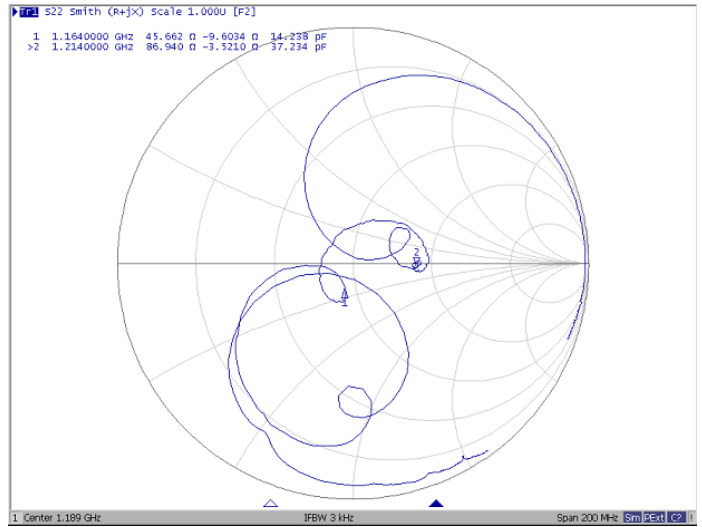
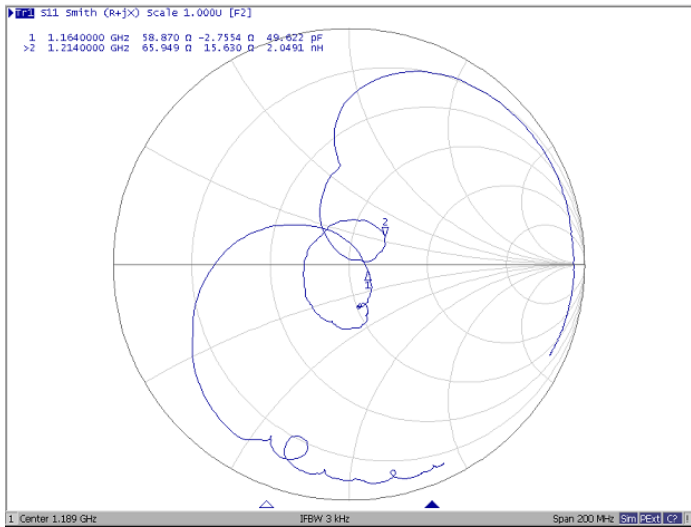
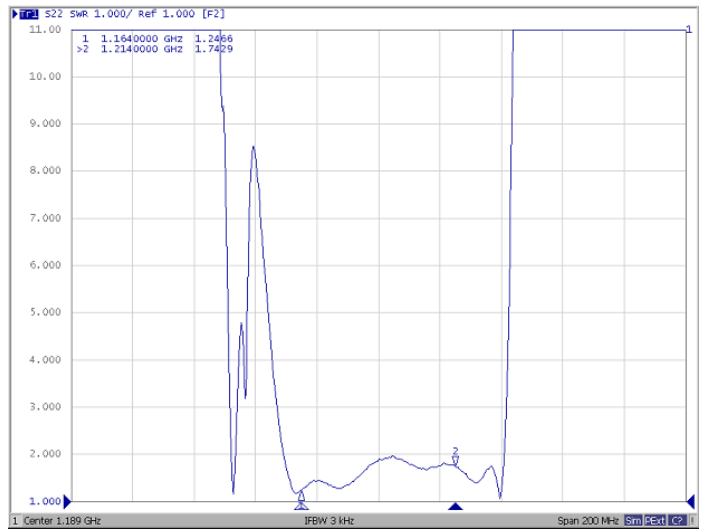
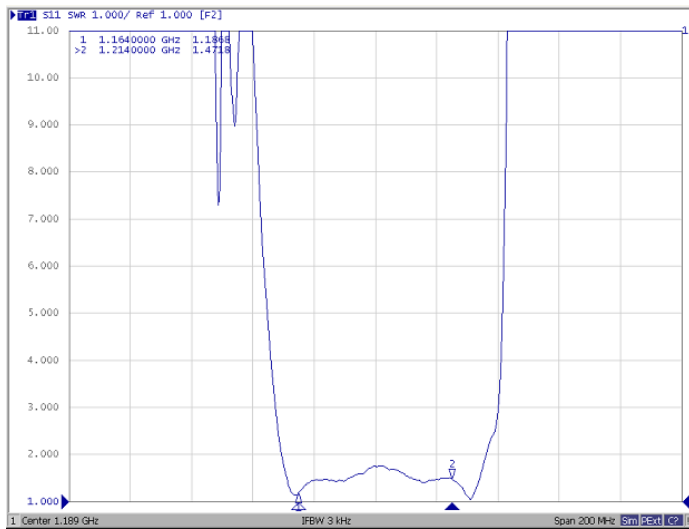
PCB Footprint :



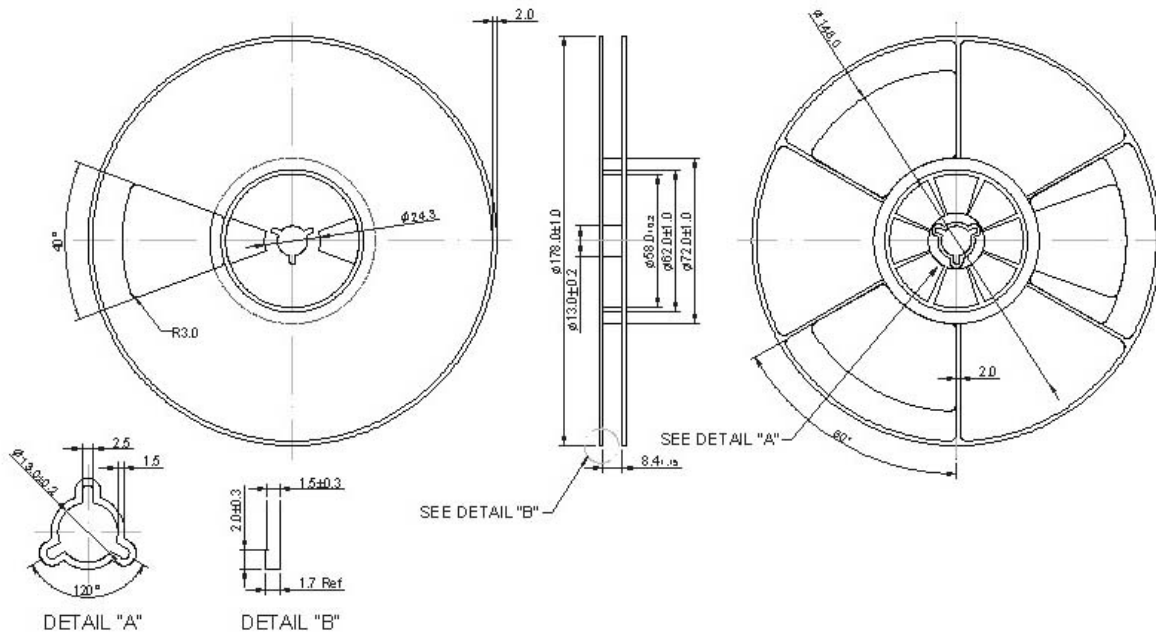
 : Land Pattern
Unit : mm

FREQUENCY CHARACTERISTICS:

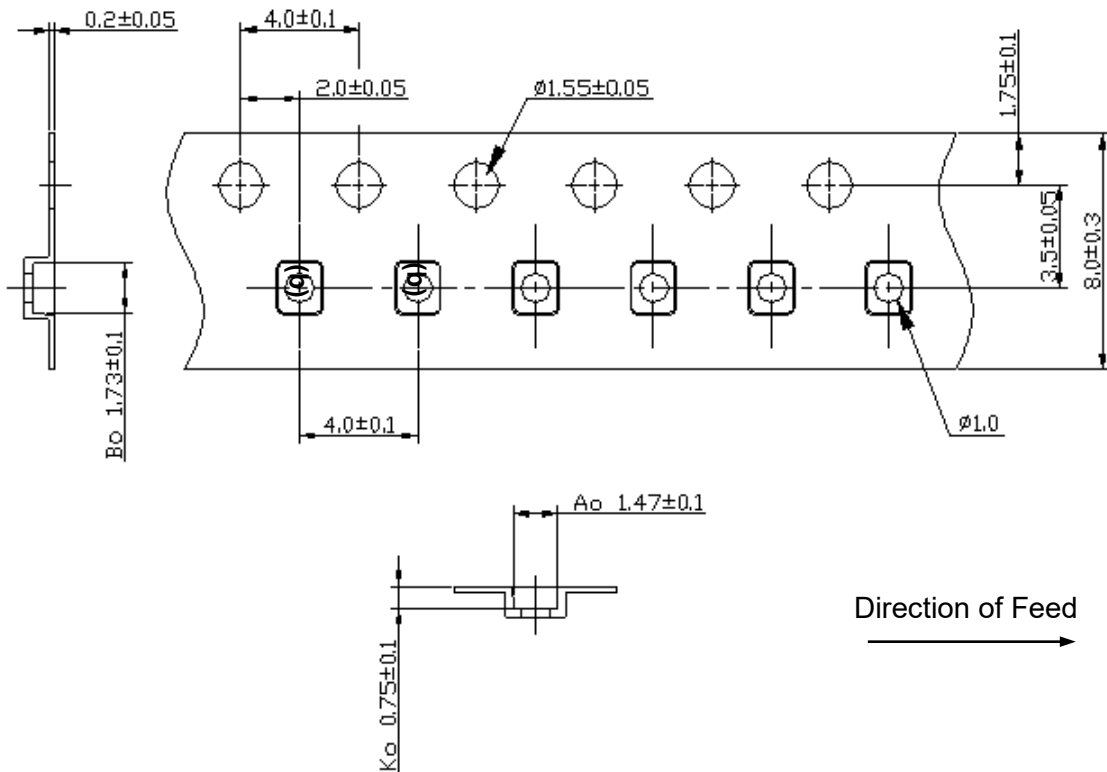




PACKING:
7" Reel Count = 3000



TAPE DIMENSION



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

