Document No. : SXC12754-01

KYOCERA SAW Filter

– WiFi-2.4GHz Filter –

Type Name : VF14-2442M5UUB1

Mar., 31, 2025

KYOCERA Corporation

Corporate Electronic Components Group

Electronic Devices Division

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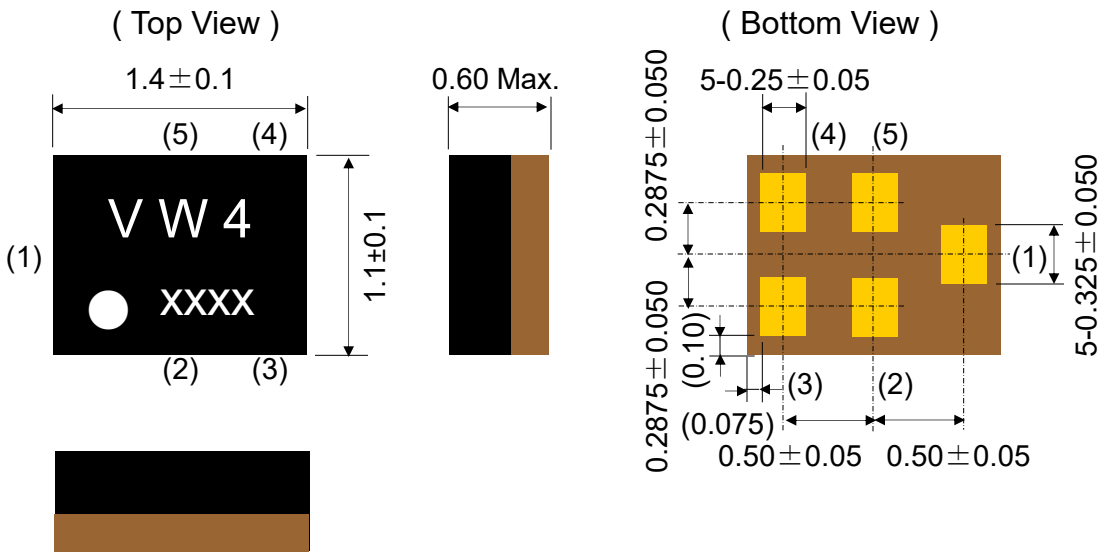
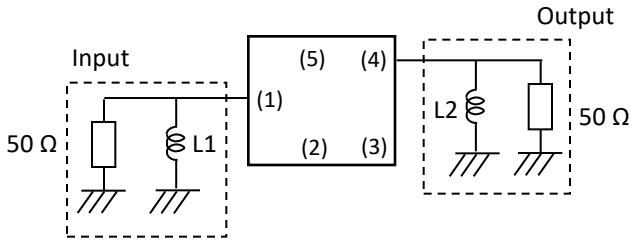
Dimensions & Test Circuit of SAW Filter

Dimensions



Test Circuit



L1 : 3.6nH (Ideal)
L2 : 3.9nH (Ideal)

Each port
Port extension(Time) : 100ps
Port extension(Loss) : 0.206dB

Unit	:	mm
V	:	Identification mark
W4	:	Identification no.
●	:	Index mark of pin 1
XXXX	:	Production code

Pin allocation

Pin No.	Function
(1)	Input
(2)	GND
(3)	GND
(4)	Output
(5)	GND

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Rating

Items		Rating	Unit	Note
Operating Temperature Range		-40 to 105	deg.C	
Storage Temperature Range		-40 to 105	deg.C	
Max Input Power In Band		25	dBm	5,000Hours,Ta=50deg.C ,CW
ESDLevel	Human Body Model	100	Volt	Complied to JESD22-A114
Moisture Sensitivity Level		3		Complied to J-STD-033B.1
Input Port Nominal Impedance		50 // 3.6nH (shunt)	ohm	Unbalance
Output Port Nominal Impedance		50 // 3.9nH (shunt)	ohm	Unbalance
AEC-Q200		Grade 2		Complied to AEC-Q200

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Characteristic table

Items	Frequency (MHz)			Unit	Kyocera Specification			Note
					min.	typ.	max.	
Insertion Loss	2400	to	2483.5	dB	-	1.5	2.6	
Ripple	2400	to	2483.5	dB	-	0.5	2.0	
Input VSWR	2400	to	2483.5	-	-	1.5	2.2	
Output VSWR	2400	to	2483.5	-	-	1.5	2.2	
Attenuation	50	to	1000	dB	40	58	-	
	1000	to	2100	dB	38	42	-	
	2100	to	2320	dB	38	42	-	
	2320	to	2332.5	dB	40	59	-	
	2332.5	to	2345	dB	38	50	-	
	2600	to	3100	dB	30	42	-	
	3100	to	4000	dB	30	42	-	
	4000	to	5000	dB	40	48	-	

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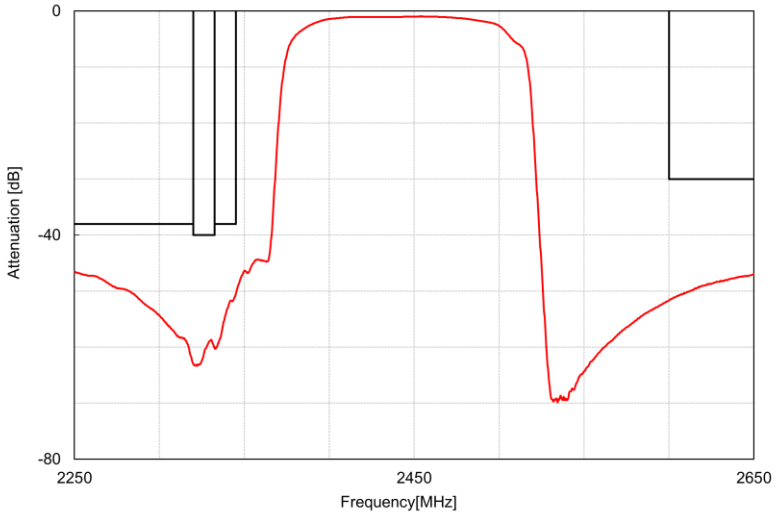
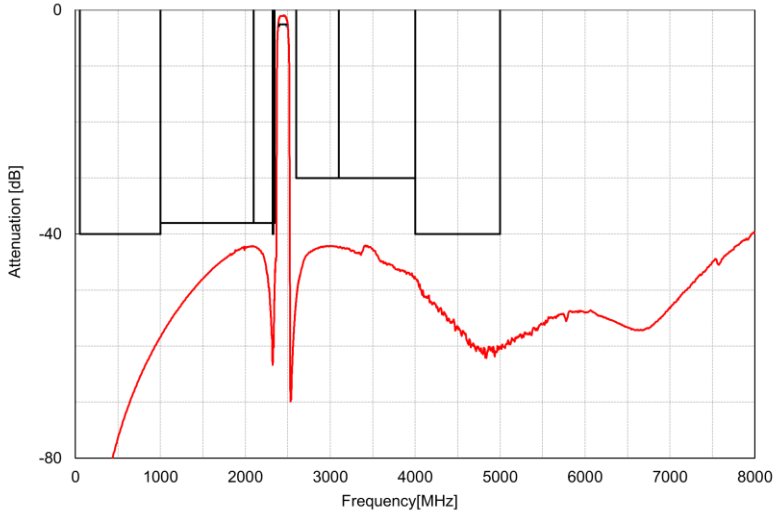
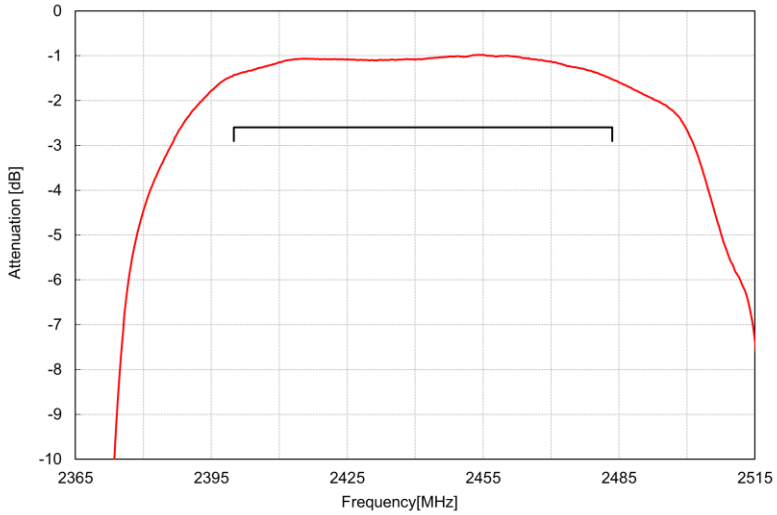
Curve Data

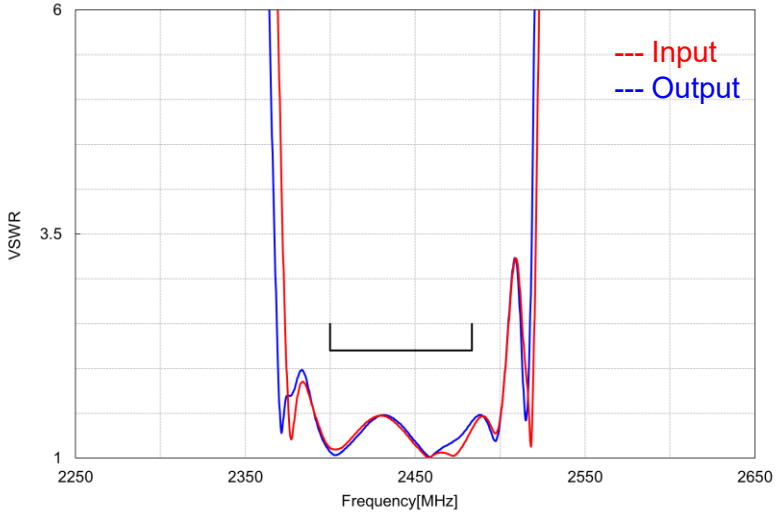




VF14-2442M5UUB1

Specification





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