Document No. : SXC12872-00

KYOCERA SAW Filter

- GNSS-L5+E5b+L2C –

Type Name : VF11-1197M5UUB1

Jun., 1, 2025

KYOCERA Corporation

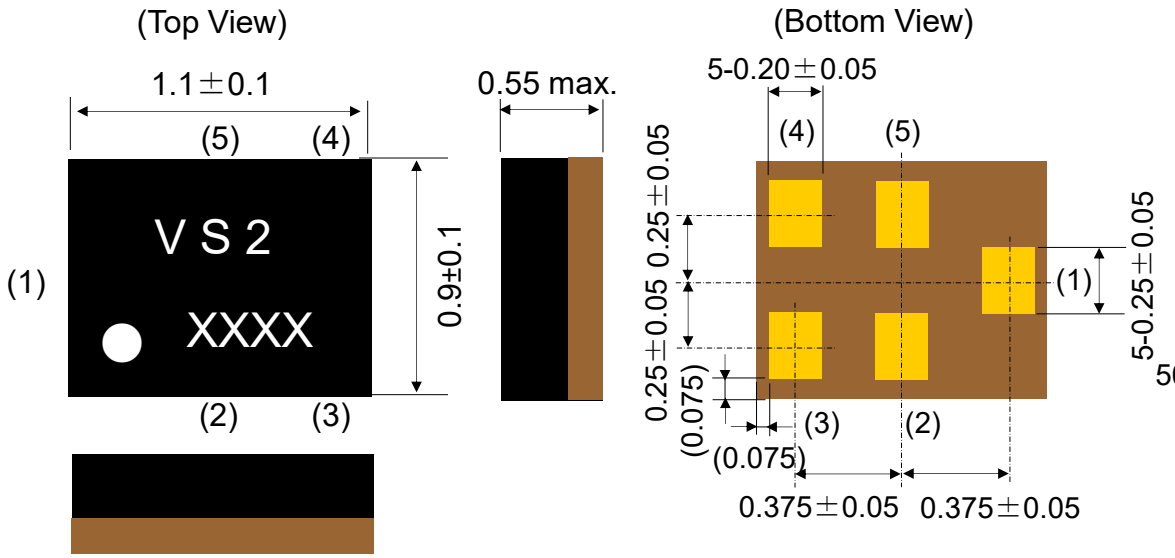
Corporate Electronic Components Group

Electronic Devices Division

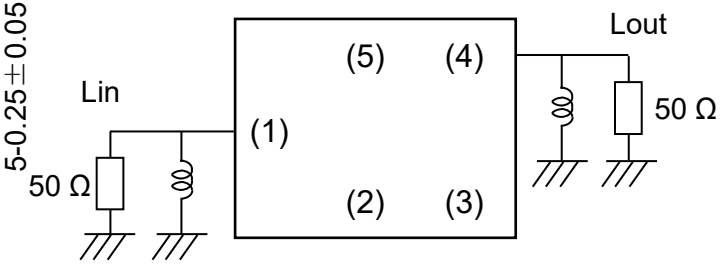
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Dimensions & Test Circuit of SAW Filter

Dimensions



Test Circuit



Unit	:	mm
V	:	Identification mark
S2	:	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

Lin : 7.5nH (ideal)
Lout : 9.1nH (ideal)

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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	Input port	15	dBm	5,000Hours,CW,Ta=50deg.C
ESD Level	Human Body Model	100	Volt	Complied to JESD22-A114
Moisture Sensitivity Level		3		Complied to J-STD-033B.1
Input Port Nominal Impedance		50 //7.5nH	ohm	Unbalance
Output Port Nominal Impedance		50 //9.1nH	ohm	Unbalance
AEC-Q200		Grade2		Complied to AEC-Q200

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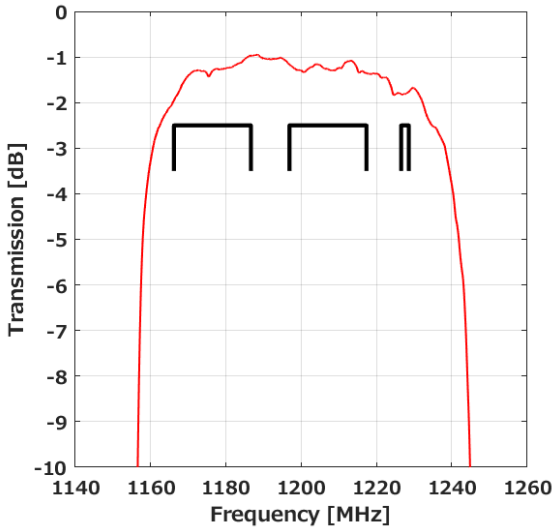
Characteristic table

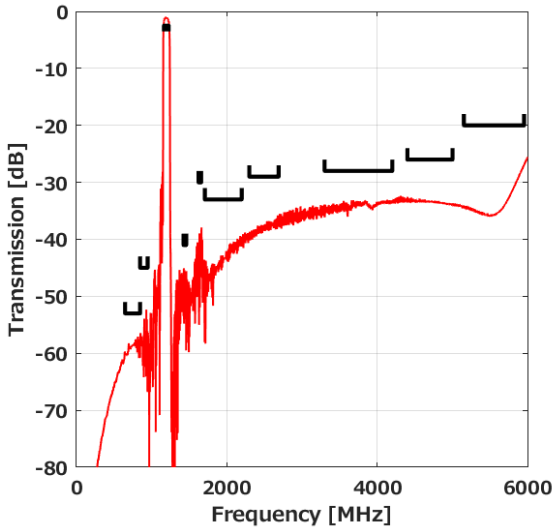
Items		Frequency[MHz]			Unit	Kyocera L5/E5b/L2C Specification			Note
						min	typ	max	
Insertion Loss		1166.22	-	1186.68	dB	-	2.0	2.5	L5
		1196.91	-	1217.37	dB	-	1.4	2.5	E5b
		1226.58	-	1228.62	dB	-	1.8	2.5	L2C
GDT Ripple Deviation		1166.22	-	1186.68	ns	-	18	35	L5
		1196.91	-	1217.37	ns	-	7	15	E5b
		1226.58	-	1228.62	ns	-	3	12	L2C
VSWR	Input	1166.22	-	1186.68	-	-	1.4	2.2	L5
		1196.91	-	1217.37	-	-	1.5	2.2	E5b
		1226.58	-	1228.62	-	-	1.6	2.2	L2C
	Output	1166.22	-	1186.68	-	-	1.6	2.2	L5
		1196.91	-	1217.37	-	-	1.5	2.2	E5b
		1226.58	-	1228.62	-	-	1.2	2.2	L2C
Attenuation		650	-	850	dB	53	57	-	
		850	-	950	dB	45	52	-	
		1427	-	1463	dB	41	45	-	
		1427	-	1463	dB_{INT}	43	46	-	any5MHz
		1626	-	1661	dB	30	39	-	
		1710	-	2200	dB	33	39	-	
		2300	-	2690	dB	29	36	-	
		3300	-	4200	dB	28	33	-	
		4400	-	5000	dB	26	33	-	
		5150	-	5950	dB	20	27	-	

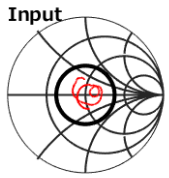
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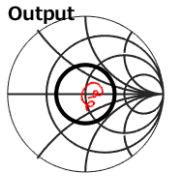
Curve Data

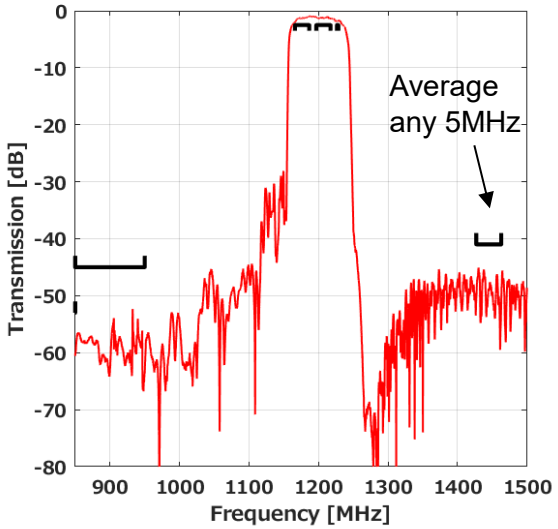
VF11-1197M5UUB1 Specification

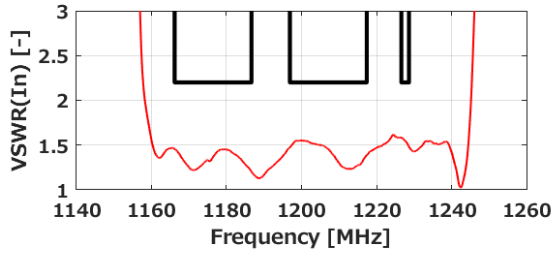


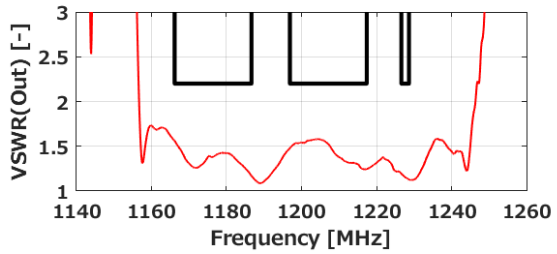


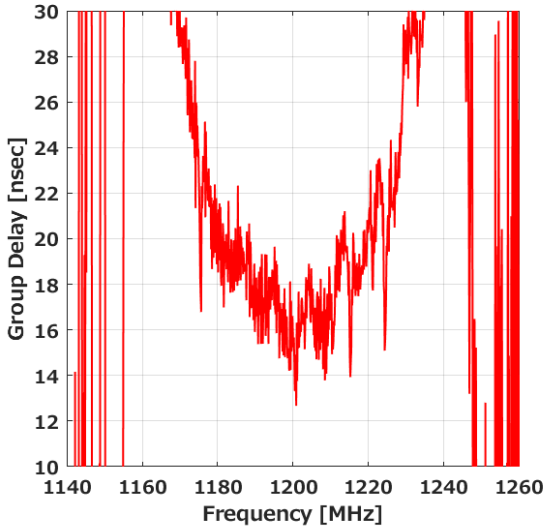












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