

KYOCERA SAW Filter
– 1109size GNSS SAW Filter –
L1+L5 Band Diplexer
Type Name : SF11-1197Y6UUA1

Oct., 30, 2025

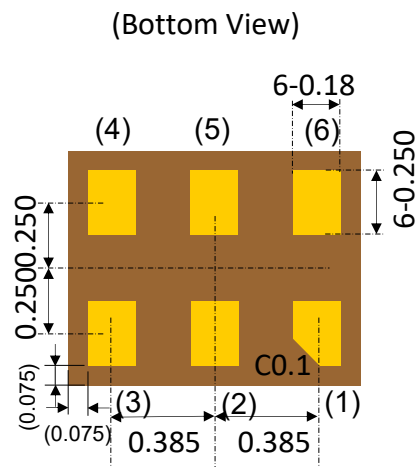
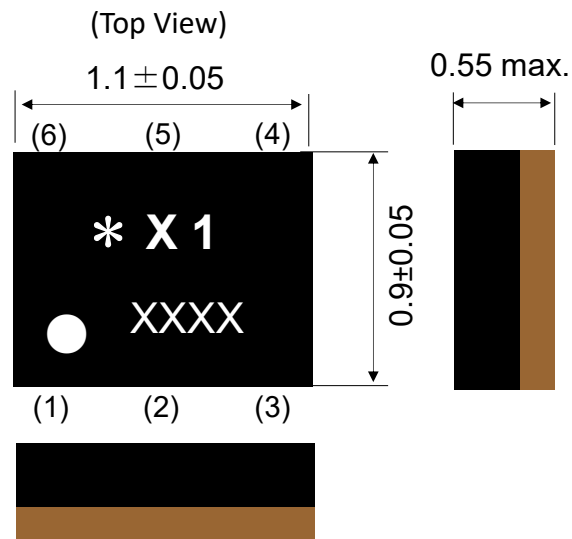
KYOCERA Corporation

Corporate Electronic Components Group

Electronic Devices Division

Dimensions & Test Circuit of SAW Filter

■ Dimensions



Pin allocation

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

Unit : mm

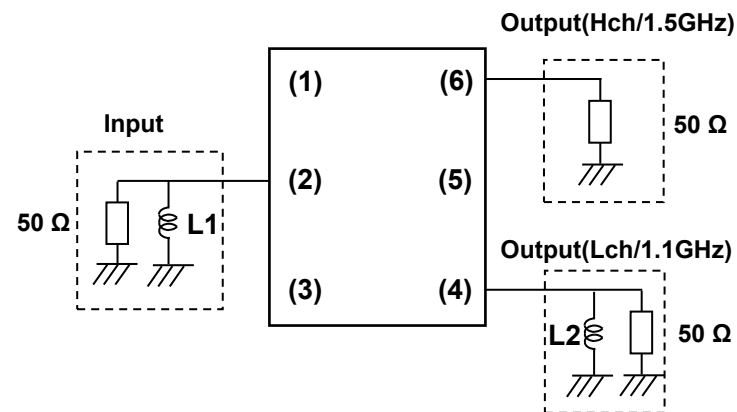
* : Identification mark

X1 : Identification no.

● : Index mark of pin 1

XXXX : Production code

■ Test Circuit



L1 : 5.1nH (Ideal)

L2 : 9.4nH (Ideal)

Items		Rating	Unit	Note
Operating Temperature Range		-40 to +85	deg.C	
Storage Temperature Range		-40 to +85	deg.C	
Max Input Power In Band		15	dBm	5,000Hours,Ta=50deg.C ,CW
ESD Level	Machine Model	50	Volt	Complied to JESD22-A115
Input Impedance		50//5.1nH	ohm	Unbalance
Output Impedance - Lch		50//9.4nH	ohm	Unbalance
Output Impedance - Hch		50	ohm	Unbalance

Characteristic table

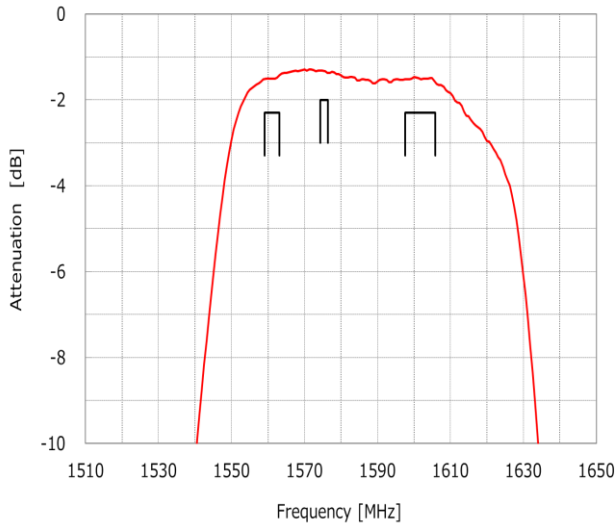
Items		Frequency[MHz]	Unit	Kyocera Specification			Note
				min	typ	max	
L1 1.5GHz	Insertion Loss	1559.05 - 1563.15	dB	-	1.5	2.3	B1
		1574.39 - 1576.45	dB	-	1.4	2.0	L1
		1597.55 - 1605.89	dB	-	1.7	2.3	G1
	VSWR	1559.05 - 1605.89	-	-	1.4	2.2	
					1.6	2.2	
	GDT Ripple Deviation	1597.55 - 1605.89	ns	-	2.4	9.0	
	Attenuation	10 - 699	dB	40	44	-	
		703 - 798	dB	38	42	-	
		814 - 915	dB	36	40	-	B26/ B8Tx
		1427 - 1463	dB	35	44	-	B11/ B21
		1710 - 1797	dB	42	47	-	B3Tx
		1850 - 1980	dB	40	46	-	B2Tx
		2010 - 2570	dB	40	46	-	B34Tx/ B30Tx/ 2.4G ISM B7Tx
		3300 - 4200	dB	30	37	-	N78, N77
		4400 - 5000	dB	27	37	-	N79
		5150 - 5950	dB	25	37	-	5G ISM
L5 1.1GHz	Insertion Loss	1166.22 - 1186.68	dB	-	0.8	1.8	L5
		1196.91 - 1217.37	dB	-	1.2	1.8	E5b
		1226.58 - 1228.62	dB	-	1.6	2.1	L2
	VSWR	1166.22 - 1186.68	-	-	1.4	2.1	
					1.6	2.1	
		1226.58 - 1228.62	-	-	1.2	2.1	
					1.4	2.1	
	GDT Ripple Deviation	1166.22 - 1186.68	ns	-	5.5	25.0	
		1196.91 - 1217.37	ns	-	3.2	25.0	
		1226.58 - 1228.62	ns	-	6.2	25.0	
	Attenuation	650 - 850	dB	30	38	-	
		850 - 950	dB	25	33	-	
		1427 - 1463	dB	25	30	-	B11/ B21
		1626 - 1661	dB	20	23	-	
		1710 - 2200	dB	26	33	-	B3/ B2
		2300 - 2690	dB	28	33	-	
		3300 - 4200	dB	25	31	-	N78, N77
		4400 - 5000	dB	25	31	-	N79
		5150 - 5950	dB	18	28	-	5G ISM

Ant to L1 1.5GHz

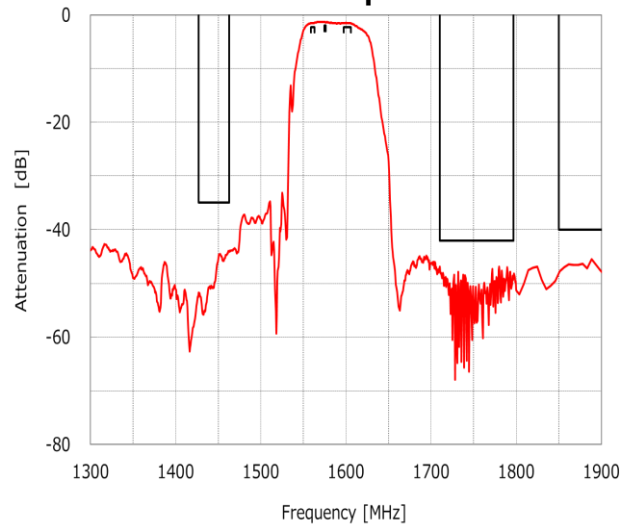
— SF11-1197Y6UUA1

— Specification

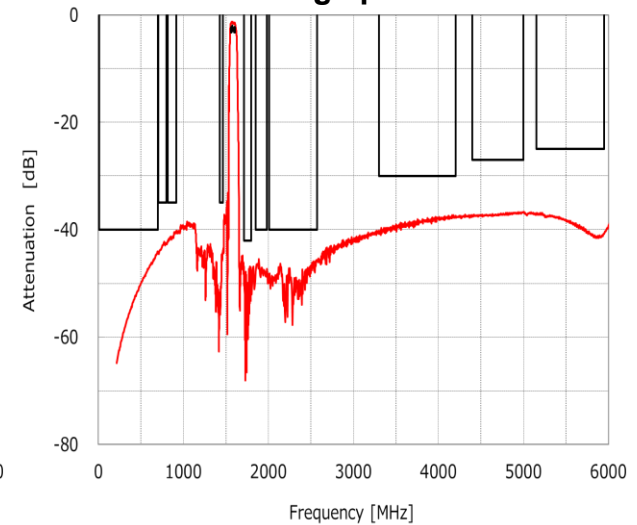
Pass Band



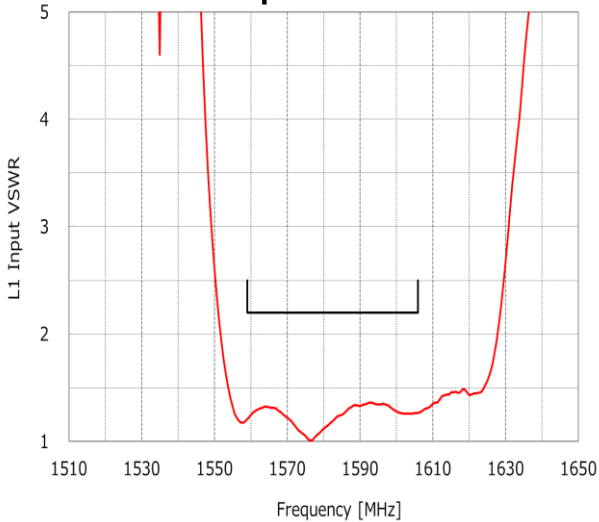
Short span



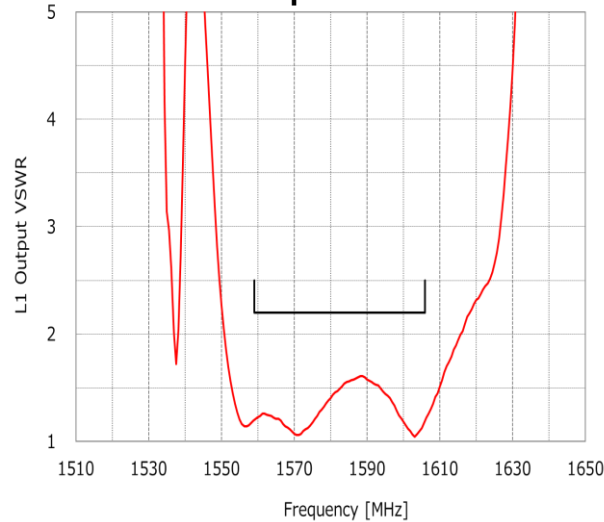
Long span



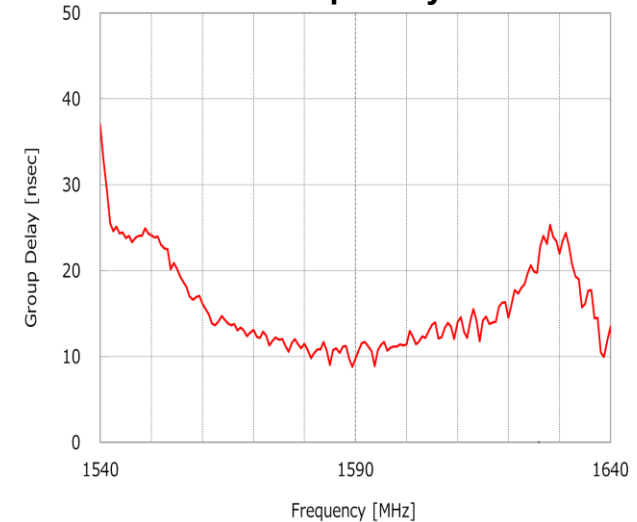
Input VSWR



Output VSWR



Group Delay

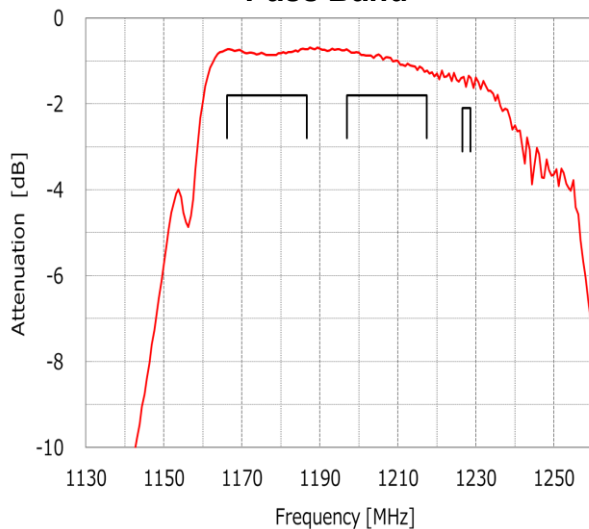


Ant to L5 1.1GHz

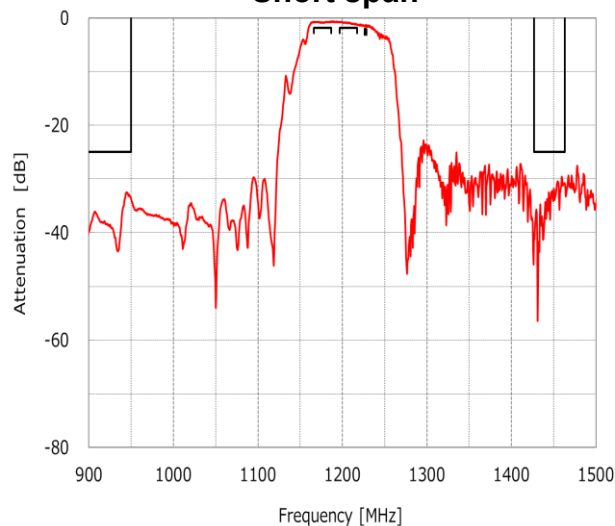
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— Specification

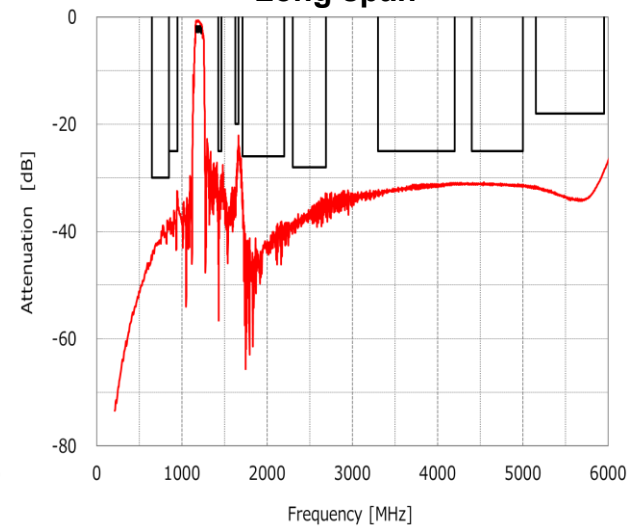
Pass Band



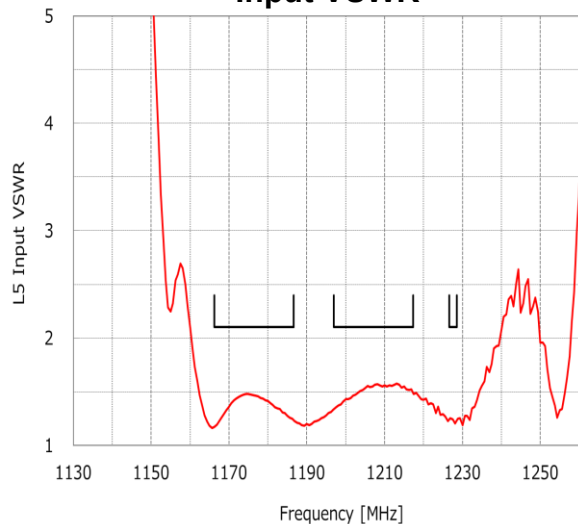
Short span



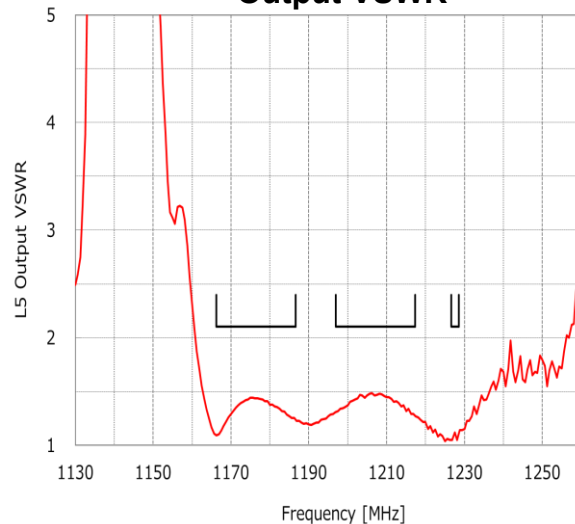
Long span



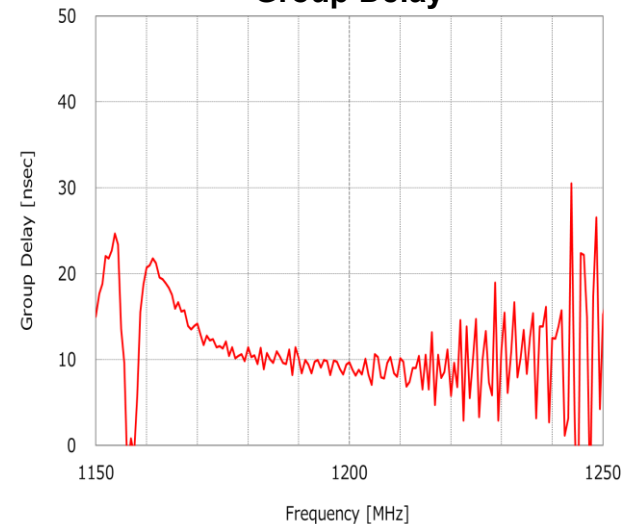
Input VSWR



Output VSWR



Group Delay



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