

KYOCERA SAW Filter
– GPS GLONASS BEIDOU –
GNSS (L1/L-band)+(L5/L2)+(L6/G2)
Type Name : VF15-1197ZAUUE1

Jul., 16, 2026

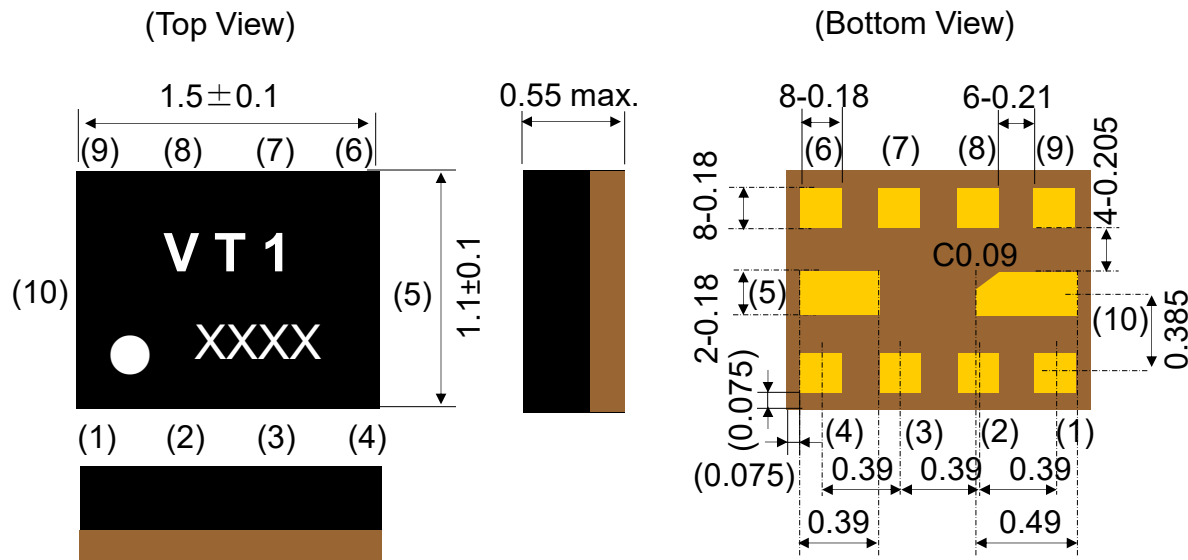
KYOCERA Corporation

Corporate Electronic Components Group

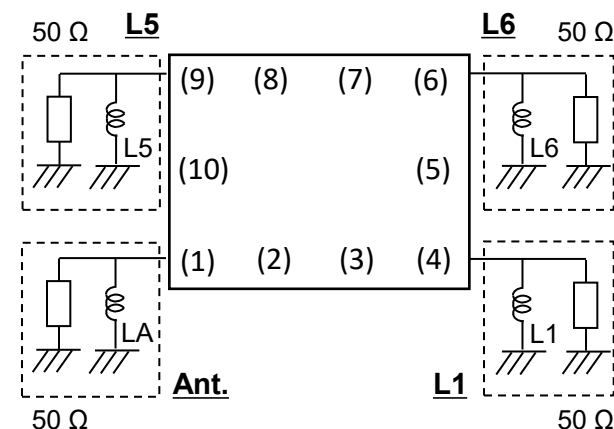
Electronic Device Division

Dimensions & Test Circuit of SAW Filter

■ Dimensions



■ Test Circuit



LA : 3.9nH (Ideal)
 L5 : 11nH (Ideal)
 L6 : 11nH (Ideal)
 L1 : 8.2nH (Ideal)

Pin allocation

Pin No.	Function
(1)	Ant.
(2)	GND
(3)	GND
(4)	L1
(5)	GND
(6)	L6
(7)	GND
(8)	GND
(9)	L5
(10)	GND

Unit : mm
 V : Identification mark
 T1 : Identification no.
 ● : Index mark of pin 1
 XXXX : Production code

Items		Rating	Unit	Note
Operating Temperature Range		-40 to 105	deg.C	
Storage Temperature Range		-40 to 105	deg.C	
Max Input Power	Ant port	15	dBm	5,000Hours,Ta=50deg.C ,CW
ESDLevel	Human Body Model	100	Volt	Complied to JESD22-A114
Ant Port Nominal Impedance		50//3.9nH	ohm	Unbalance
L5 Port Nominal Impedance		50//11nH	ohm	Unbalance
L6 Port Nominal Impedance		50//11nH	ohm	Unbalance
L1 Port Nominal Impedance		50//8.2nH	ohm	Unbalance
AEC-Q200		Grade2		Complied to AEC-Q200

Characteristic table

L1

Items	Frequency [MHz]	Unit	Kyocera Specification			Note.
			min.	typ.	max.	
Insertion Loss	1518 - 1525	dB	-	1.8	2.5	n253 DL
	1525 - 1559	dB	-	1.5	2.2	n255 DL
	1559.05 - 1563.15	dB	-	1.3	2.2	B1
	1574.39 - 1576.45	dB	-	1.5	2.2	L1
	1597.55 - 1605.89	dB	-	1.8	2.5	G1
VSWR (Input)	1518 - 1525	dB	-	1.7	2.3	n253 DL
	1525 - 1559	dB	-	1.7	2.3	n255 DL
	1559.05 - 1605.89	dB	-	1.5	2.2	B1/L1/G1
VSWR (Output)	1518 - 1525	dB	-	1.6	2.2	n253 DL
	1525 - 1559	dB	-	1.6	2.2	n255 DL
	1559.05 - 1605.89	dB	-	1.6	2.2	B1/L1/G1
Group Delay Ripple	1518 - 1525	nsec	-	7	25	n253 DL
	1525 - 1559	nsec	-	9	20	n255 DL
	1559.05 - 1563.15	nsec	-	2	15	B1
	1574.39 - 1576.45	nsec	-	2	15	L1
	1597.55 - 1605.89	nsec	-	3	20	G1
Attenuation	10 - 699	dB	37	42	-	
	703 - 798	dB	32	38	-	
	814 - 915	dB	29	34	-	
	1427 - 1463	dB	33	40	-	
	1710 - 1797	dB	34	40	-	
	1850 - 1980	dB	35	38	-	
	2010 - 2570	dB	35	38	-	
	3300 - 4200	dB	27	30	-	
	4400 - 5000	dB	24	27	-	
	5150 - 5950	dB	20	23	-	

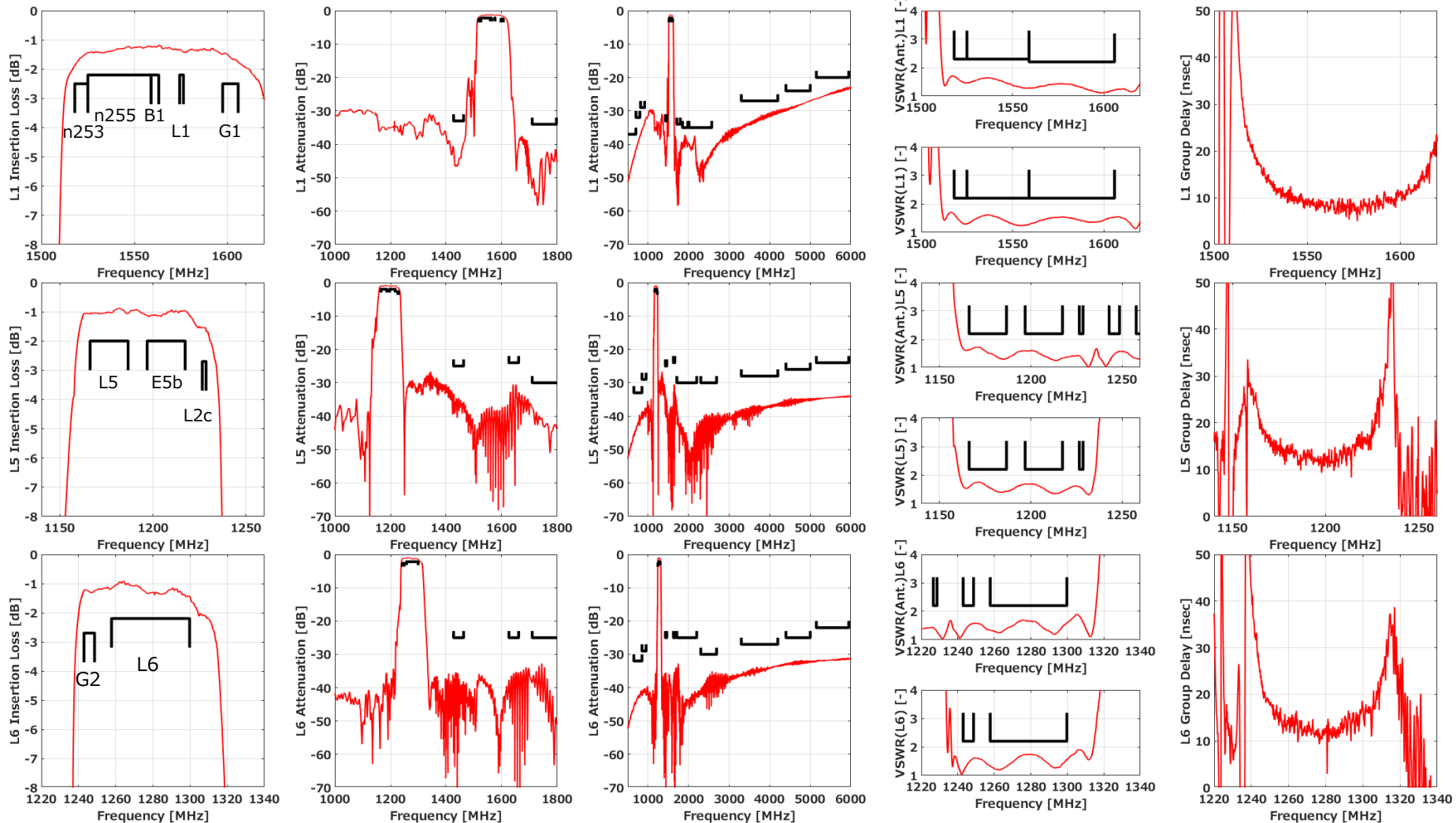
L5

Items	Frequency [MHz]	Unit	Kyocera Specification			Note.
			min.	typ.	max.	
Insertion Loss	1166.22 - 1186.68	dB	-	1.1	2.0	L5
	1196.91 - 1217.37	dB	-	1.2	2.0	E5b
	1226.58 - 1228.62	dB	-	1.7	2.7	L2C
VSWR (Input)	1166.22 - 1186.68	dB	-	1.7	2.2	L5
	1196.91 - 1217.37	dB	-	1.6	2.2	E5b
	1226.58 - 1228.62	dB	-	1.4	2.2	L2C
VSWR (Output)	1166.22 - 1186.68	dB	-	1.7	2.2	L5
	1196.91 - 1217.37	dB	-	1.7	2.2	E5b
	1226.58 - 1228.62	dB	-	1.6	2.2	L2C
Group Delay Ripple	1166.22 - 1186.68	nsec	-	9	25	L5
	1196.91 - 1217.37	nsec	-	8	25	E5b
	1226.58 - 1228.62	nsec	-	6	30	L2C
Attenuation	650 - 850	dB	33	39	-	
	850 - 950	dB	29	37	-	
	1427 - 1463	dB	25	34	-	
	1626 - 1661	dB	24	31	-	
	1710 - 2200	dB	30	38	-	
	2300 - 2690	dB	30	39	-	
	3300 - 4200	dB	28	36	-	
	4400 - 5000	dB	26	35	-	
	5150 - 5950	dB	24	34	-	

L6

Items	Frequency [MHz]	Unit	Kyocera Specification			Note.
			min.	typ.	max.	
Insertion Loss	1242.94 - 1248.62	dB	-	1.4	2.7	G2
	1257.75 - 1299.75	dB	-	1.5	2.2	L6
VSWR (Input)	1242.94 - 1248.62	dB		1.5	2.2	G2
	1257.75 - 1299.75	dB		1.7	2.2	L6
VSWR (Output)	1242.94 - 1248.62	dB		1.6	2.2	G2
	1257.75 - 1299.75	dB		1.7	2.2	L6
Group Delay Ripple	1242.94 - 1248.62	nsec	-	14	35	G2
	1257.75 - 1299.75	nsec	-	16	40	L6
Attenuation	650 - 850	dB	32	41	-	
	850 - 950	dB	29	40	-	
	1427 - 1463	dB	25	36	-	
	1626 - 1661	dB	25	35	-	
	1710 - 2200	dB	25	33	-	
	2300 - 2690	dB	30	36	-	
	3300 - 4200	dB	27	34	-	
	4400 - 5000	dB	25	32	-	
	5150 - 5950	dB	22	31	-	

— VF15-1197ZAUUE1 — Specification



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