

Datasheet of SAW Diplexer

1109 GNSS

For GPS(L1) _GLONASS(G1)

For GPS(L5) _GALILEO(E5b) _GPS(L2)

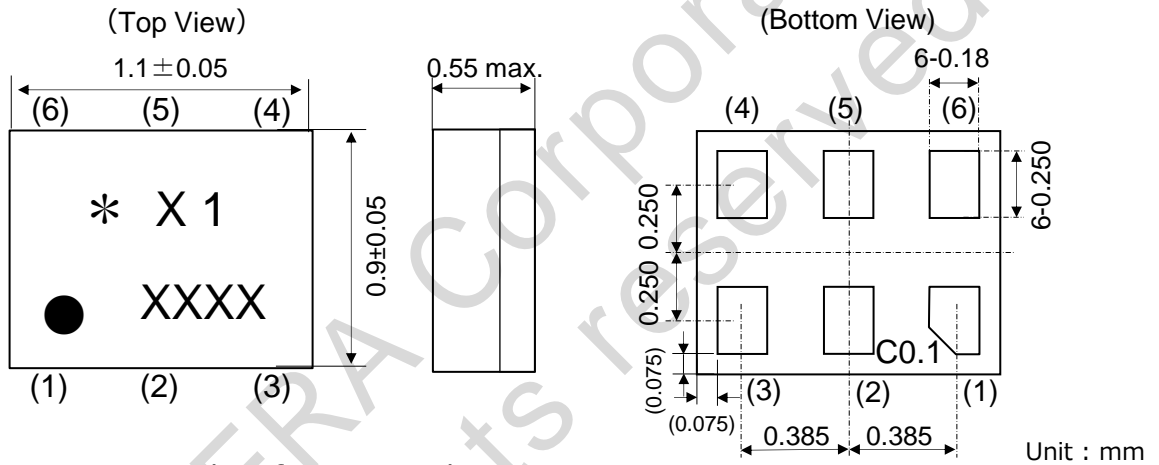
KYOCERA Part No. : SF11-1197Y6UUA1

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Rating

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

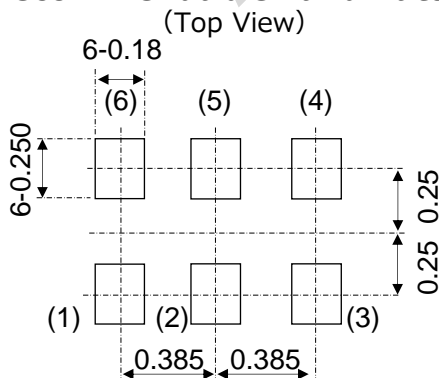
Dimensions



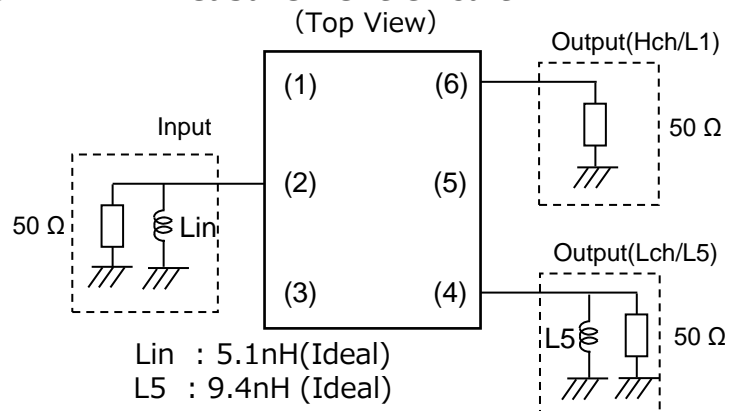
- * : Identification mark
- X1 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



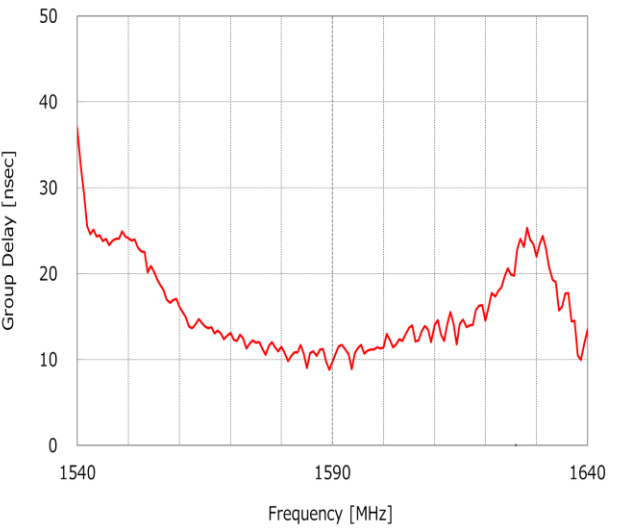
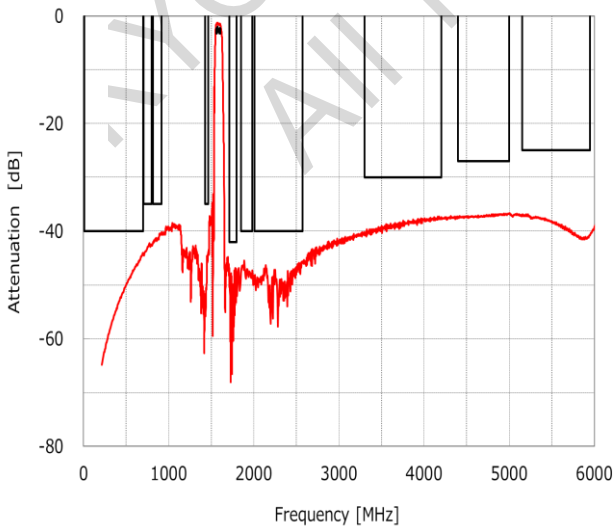
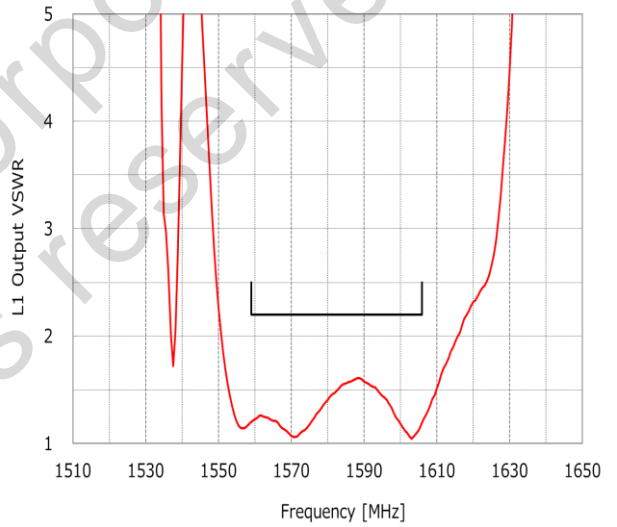
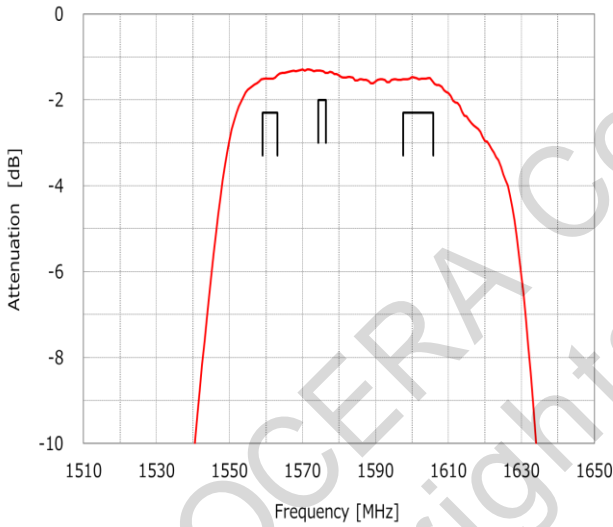
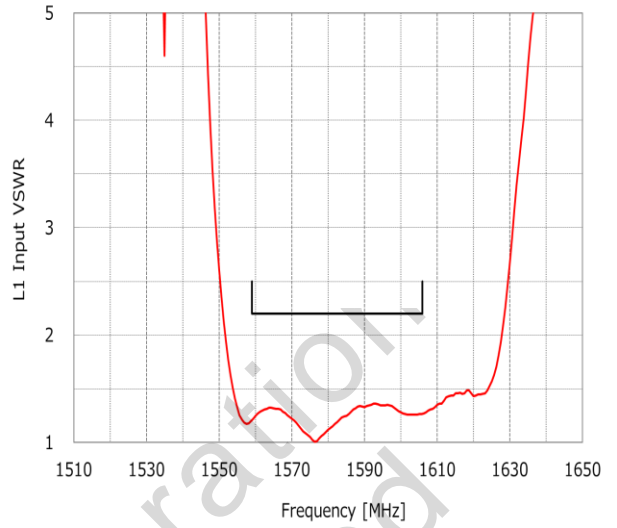
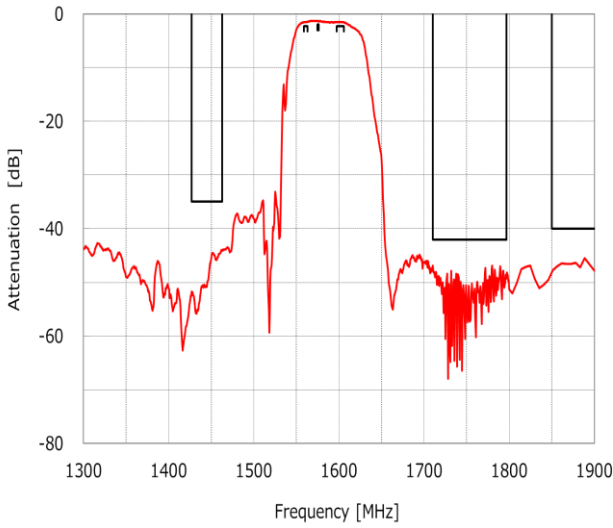
Measurement Circuit



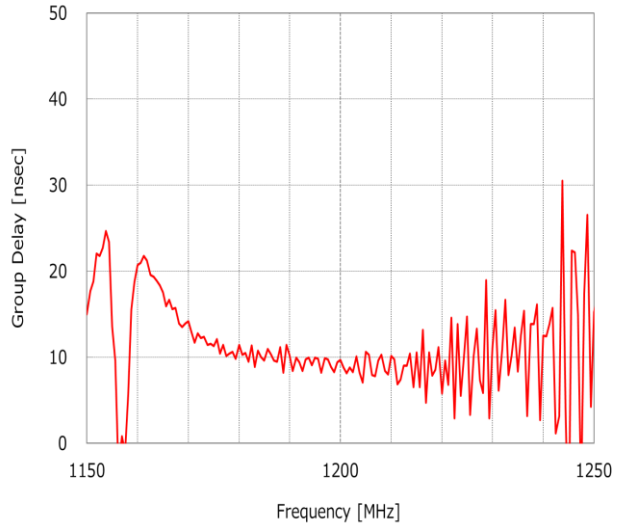
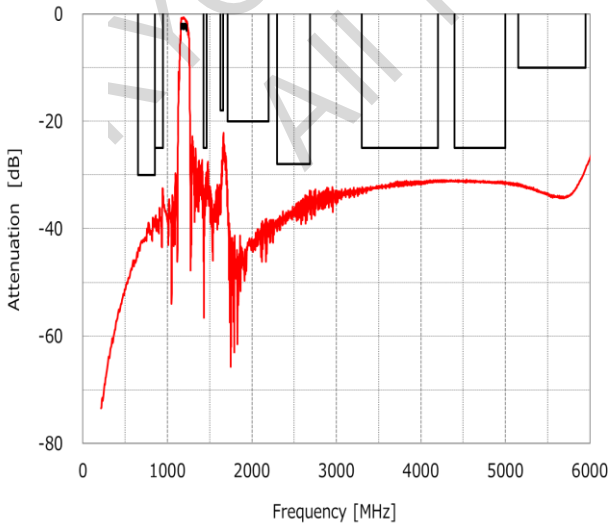
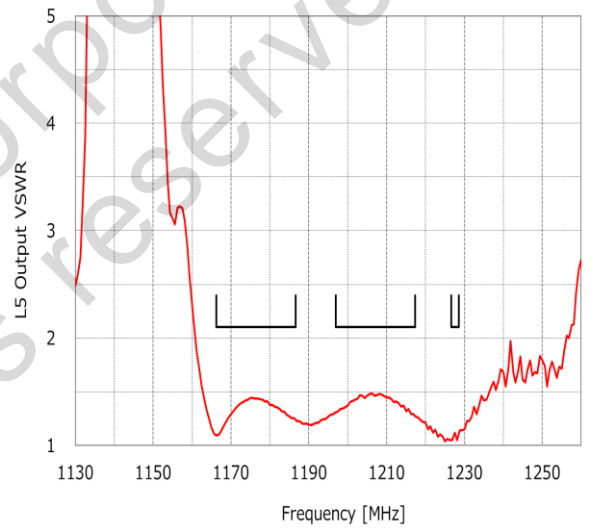
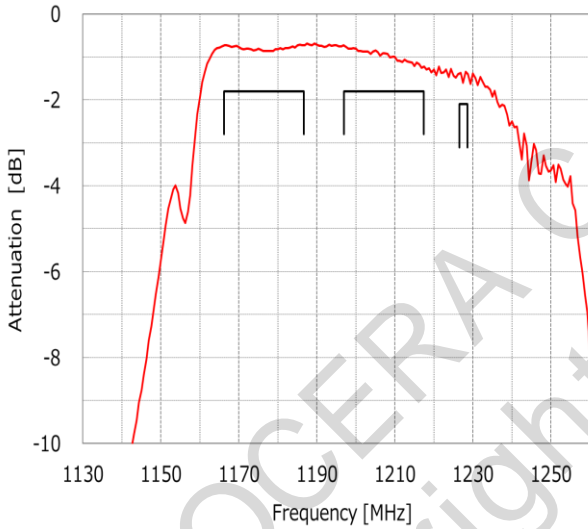
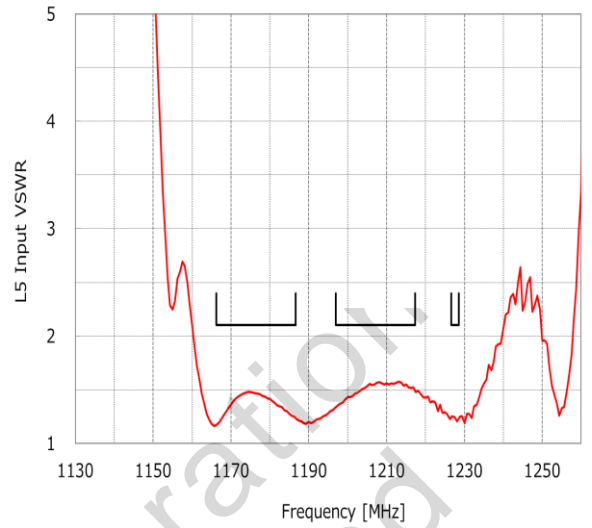
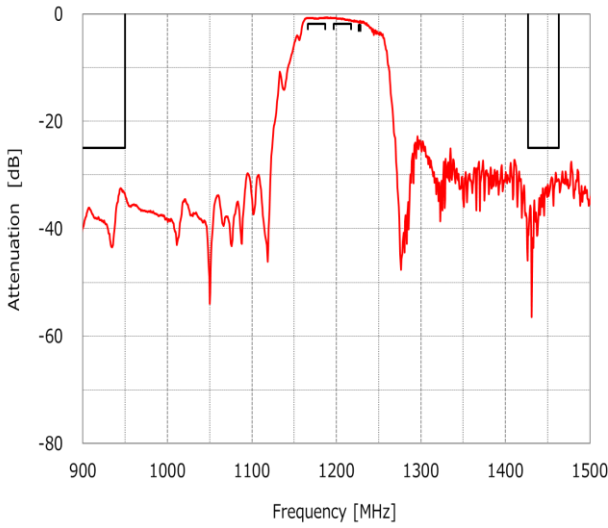
Electrical Characteristics

Items	Frequency[MHz]	Unit	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	Input	1559.05 - 1605.89	-	-	1.4	2.2	
		Output	1559.05 - 1605.89	-	-	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	Input	1166.22 - 1186.68	-	-	1.4	2.1	
			1196.91 - 1217.37	-	-	1.6	2.1	
			1226.58 - 1228.62	-	-	1.2	2.1	
		Output	1166.22 - 1186.68	-	-	1.4	2.1	
			1196.91 - 1217.37	-	-	1.5	2.1	
			1226.58 - 1228.62	-	-	1.2	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			

Electrical Characteristics L1(1.5GHz)

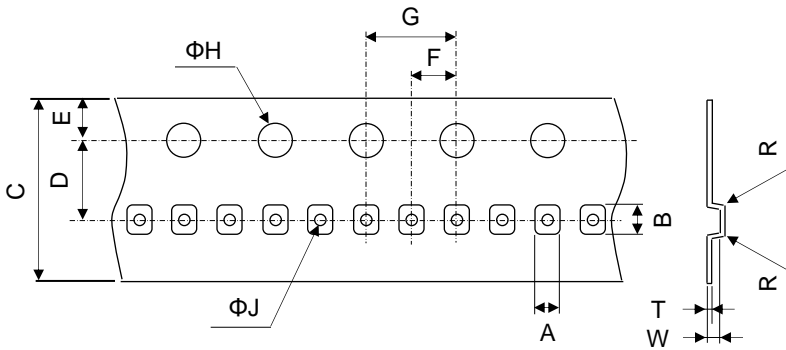


Electrical Characteristics L5(1.1GHz)



Tape & Reel Specification

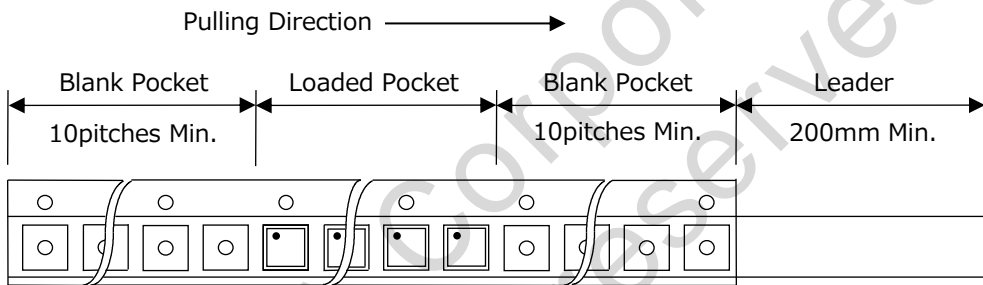
[Tape]



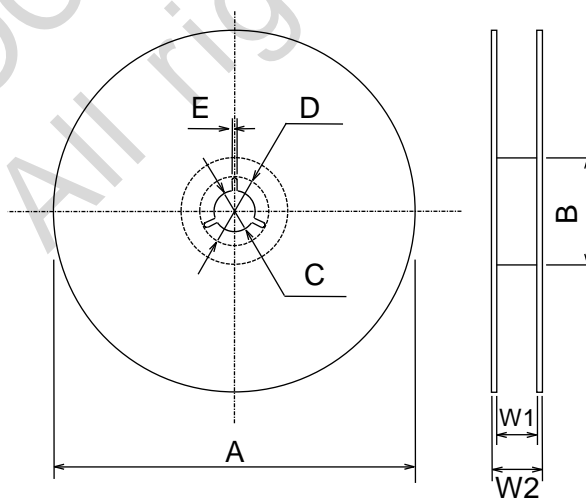
Unit : mm

Part	Dimension
A	1.1±0.05
B	1.3±0.05
C	8.0±0.1
D	3.5±0.05
E	1.75±0.1
F	2.0±0.05
G	4.0±0.05
φH	1.5+0.1/-0
φJ	0.50±0.05
R	0.1 Max
W	0.60±0.05
T	0.20+0.03/-0.02

W : Dimension is depth of pockets.



[Reel]



Part	A	B	C	D	Unit : mm
Dimension	180 +0/-1.5	60 +1.0/-0	13 ± 0.2	21 ± 0.8	
Part	E	W1	W2		
Dimension	2 ± 0.5	9.0 +1.0/-0	11.4 ± 1.0		

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