

RoHS Compliant

Datasheet of SAW Filter 1109 GNSS

For GPS(L5) _GALILEO(E5b)_BEIDOU(B2b)

KYOCERA Part No.: SF11-1192M5UUA1

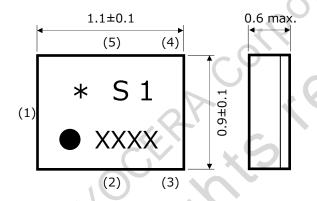


Rating

	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	
Nominal Input Impedance		50//8.2nH	ohm	Unbalance	
Nominal output Impedance		50//8.2nH	ohm	Unbalance	

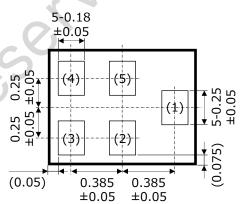
Dimensions

(Top View)



* : Identification mark
S1 : Identification no.
● : Index mark of pin 1
XXXX : Production code

(Bottom View)

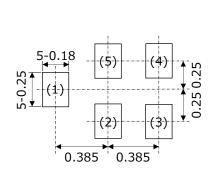


Unit: mm

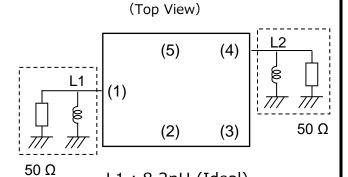
Pin No.	Function
(1)	Input
(4)	Output
Others	GND

Recommendable Land Pattern

Measurement Circuit



(Top View)



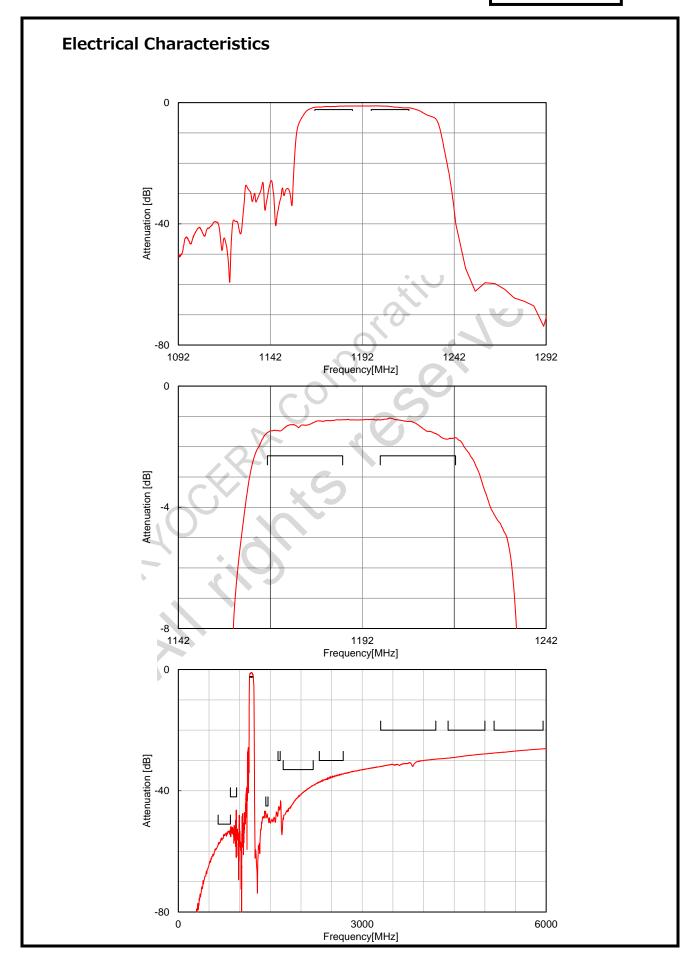
L1: 8.2nH (Ideal) L2: 8.2nH (Ideal)



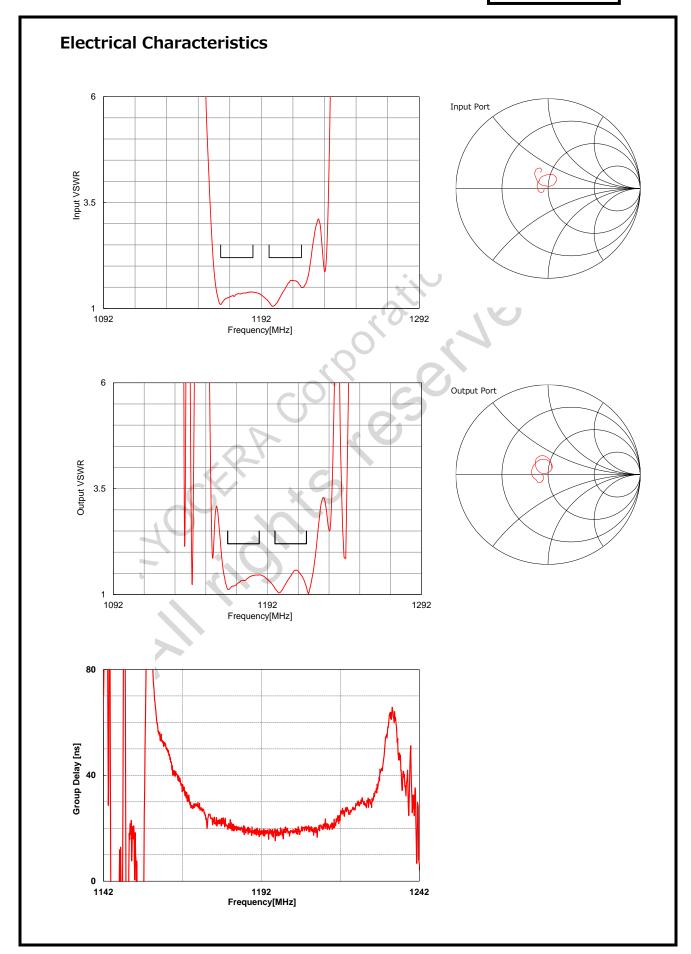
Electrical Characteristics

ITEM		Frequency[MHz]		Unit	Kyocera Development Specification			Note	
Insertion Loss		1166.22	_	1186.68	dB	min -	1.3	2.3	
Thisertion Loss		1196.91		1217.37	dВ		1.7	2.3	
GDT Ripple Deviation		1166.22	-	1186.68	ns	-	16	35	
		1196.91	-	1217.37	ns	-	10	25	
VSWR	In	1166.22	-	1186.68	-	ı	1.3	2.2	
		1196.91	-	1217.37	-	-	1.5	2.2	
	Out	1166.22	-	1186.68	-	-	1.3	2.2	
		1196.91	-	1217.37	-	-	1.3	2.2	
Attenuation		650	-	850	dB	51	54	-	
		850	-	950	dB ⋅	42	48	-	
		850	-	950	dB _{INT}	45	53		any 5MHz
		1427	-	1463	dB	45	49		***************************************
		1626	-	1661	dB	30	45	-	
		1710	-	2200	dB	33	38	-	
		2300	-	2690	dB	30	34	-	
		3300	-	4200	dB	20	28	-	
		4400	-(5000	dB	20	26	-	
		5150	-	5950	dB	20	25	-	



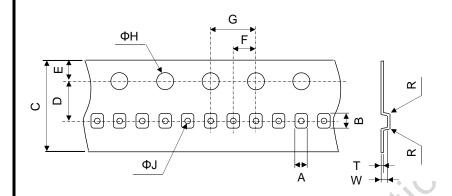






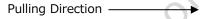


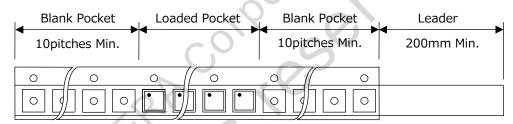
Tape & Reel Specification [Tape]



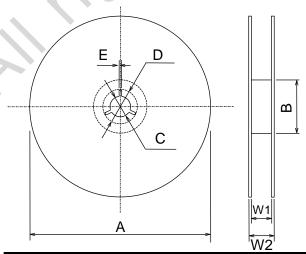
	Unit : mm
Part	Dimension
Α	1.1±0.05
В	1.3±0.05
С	8.0±0.1
D	3.5±0.05
Е	1.75±0.1
F	2.0±0.05
G	4.0±0.05
φН	1.5+0.1/-0
φJ	0.50±0.05
R	0.1 Max
W	0.60±0.05
T	0 20+0.03/-0.02

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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