Rev.00

RoHS Compliant

Datasheet of SAW Filter

1109 GNSS

For GPS(L1) _GLONASS(G1) _BEIDOU(B1)

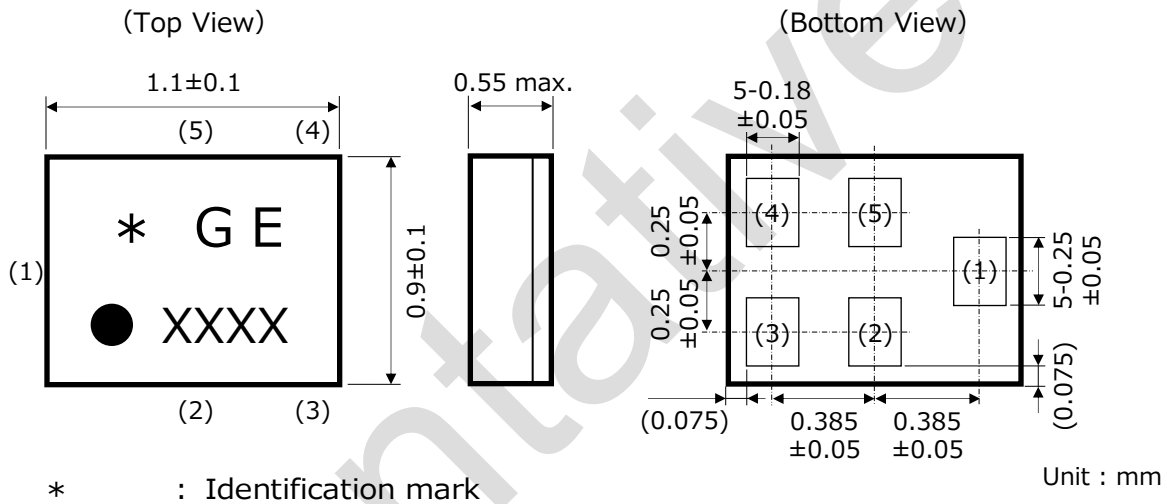
KYOCERA Part No. : SF11-1582M5UUE1

< Note > This specification may be subject to change.

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	ohm	Unbalance
Nominal output Impedance		50	ohm	Unbalance

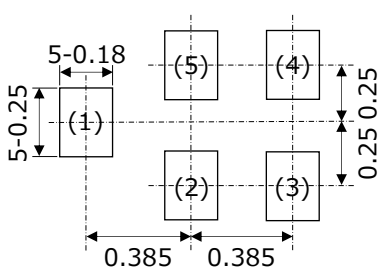
Dimensions



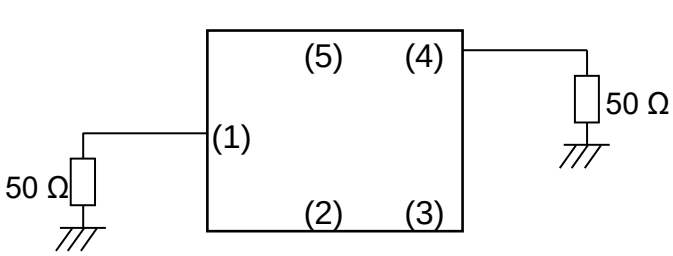
＊ : Identification mark
GE : Identification no.
● : Index mark of pin 1
XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit



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Electrical Characteristics

Items	Frequency [MHz]			Unit	Kyocera Tentative Spec.			Note
					min	typ	max	
Insertion Loss	1559.05	-	1563.15	dB	-	1.4	2.0	
	1574.39	-	1576.45	dB	-	1.1	1.4	
	1597.55	-	1605.89	dB	-	1.4	2.0	
VSWR (Input)	1559.05	-	1605.89	-	-	1.5	2.0	
VSWR (Output)	1559.05	-	1605.89	-	-	1.4	2.0	
GDT Ripple Deviation	1597.55	-	1605.89	ns	-	3.6	15	
Attenuation	10	-	699	dB	40	56	-	
	703	-	798	dB	45	55	-	
	814	-	915	dB	50	55	-	B26/ B8Tx
	1427	-	1463	dB	45	65	-	B11/ B21
	1710	-	1797	dB	50	56	-	B3Tx, Average any 5MHz
	1850	-	1980	dB	45	53	-	B2Tx
	2010	-	2570	dB	40	49	-	B34Tx/ B30Tx/ 2.4G ISM/ B7Tx
	3300	-	4200	dB	30	45	-	N78/ N77
	4400	-	5000	dB	27	43	-	N79
	5150	-	5950	dB	25	45	-	5G ISM

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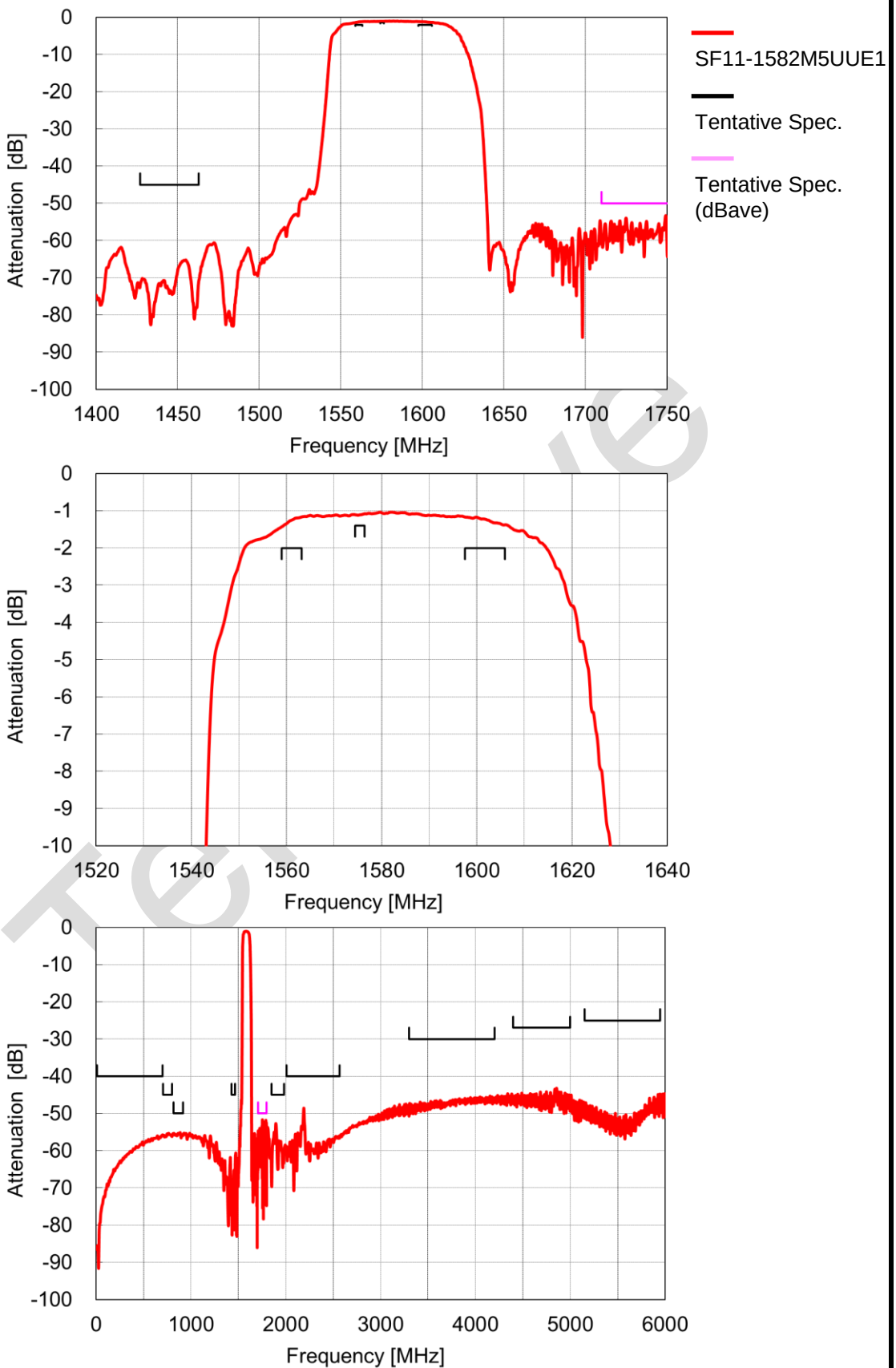
Electrical Characteristics



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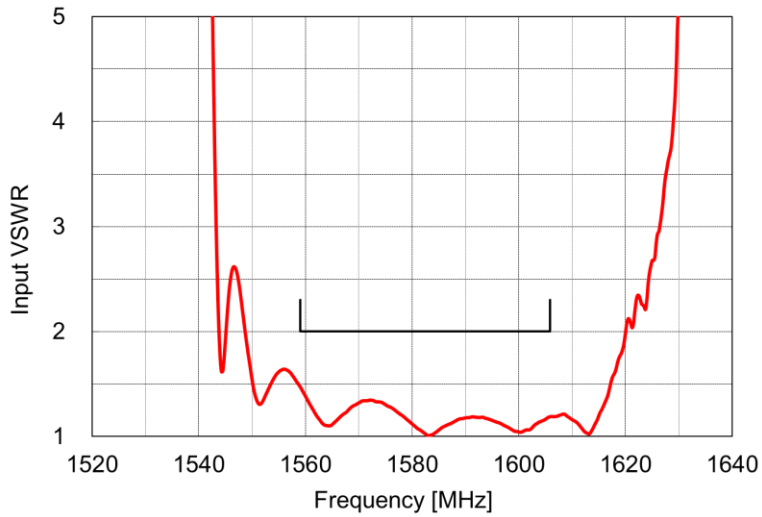
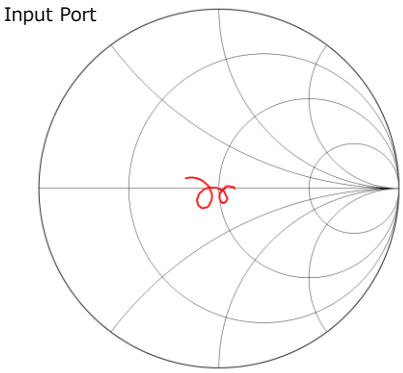
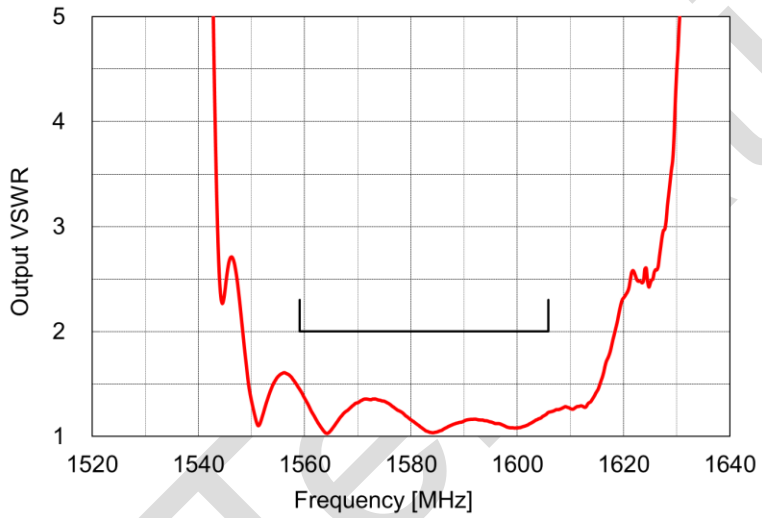
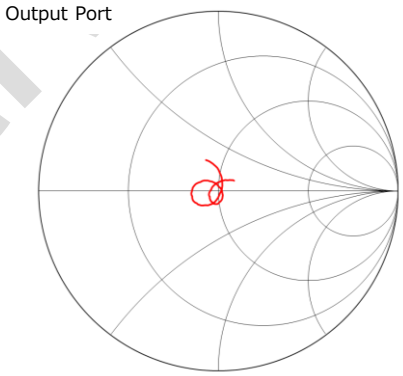
Electrical Characteristics









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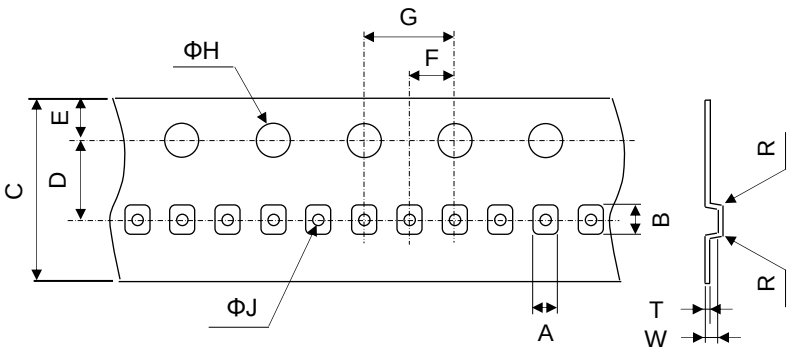
Tape & Reel Specification

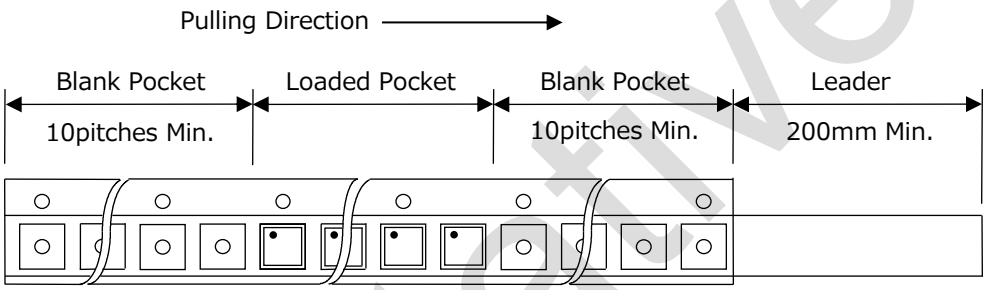
[Tape]



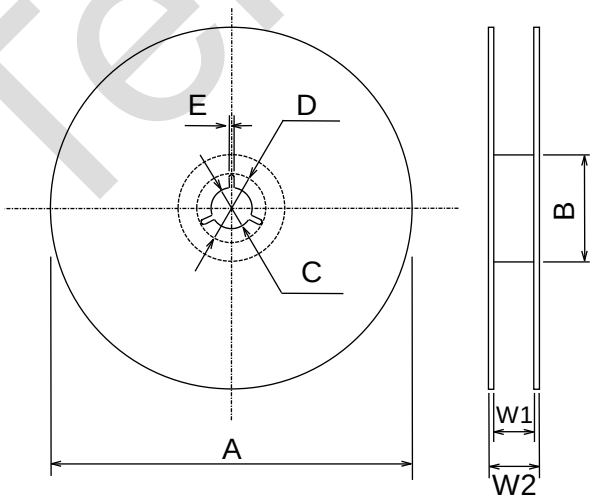
Unit : mm

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
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	

Unit : mm

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