

RoHS Compliant

Datasheet of SAW Filter

1109 GNSS

For GPS(L1) _GLONASS(G1) _BEIDOU(B1) AEC-Q200 Grade2

KYOCERA Part No.: VF11-1582M5UUE1

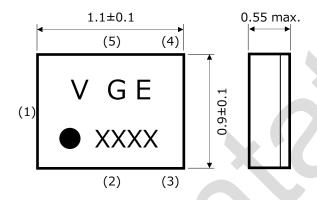


Rating

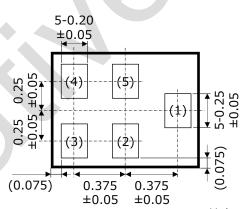
	Items	Rating	Unit	Note
Operating Temper	ature Range	-40 to 105	deg.C	
Storage Temperat	ure Range	-40 to 105	deg.C	
Max Input Power	Input port	15	dBm	5,000Hours,Ta=50deg.C ,CW
ESDLevel	Human Body Model	100	Volt	Complied to JESD22-A114
Input Port Nominal	Impedance	50	ohm	Unbalance
Output Port Nomin	al Impedance	50	ohm	Unbalance
AEC-Q200		Grade2		Complied to AEC-Q200

Dimensions

(Top View)



(Bottom View)



Unit : mm

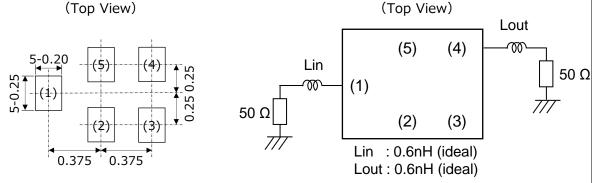
V : Identification mark
GE : Identification no.

● : Index mark of pin 1
XXXX : Production code

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

Recommendable Land Pattern

Measurement Circuit



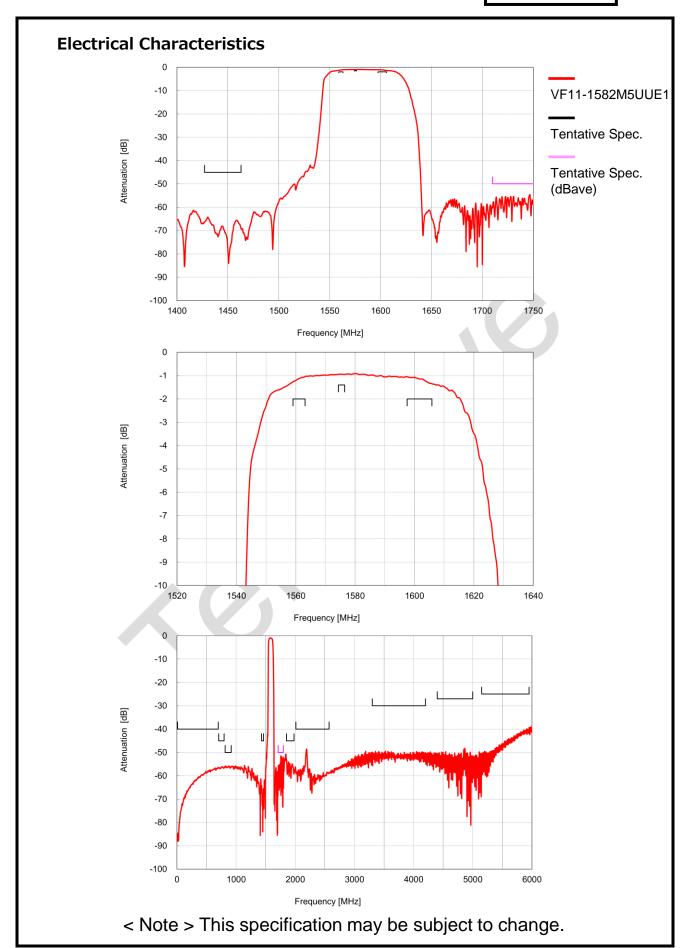
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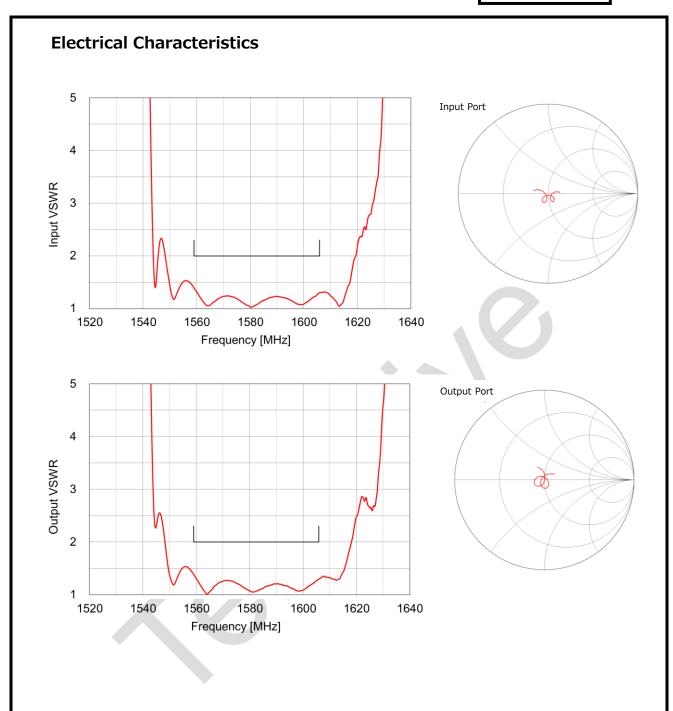
Electrical Characteristics

Items		Frequency [MHz]		Unit	Kyocera Tentative Spec.			Note	
					min	typ	max		
Insertion Loss		1559.05	_	1563.15	dB	-	1.3	2.0	
		1574.39	-	1576.45	dB	-	1.0	1.4	
		1597.55	-	1605.89	dB	-	1.3	2.0	
VSWR	Input	1559.05	-	1605.89	-	-	1.4	2.0	
	Output	1559.05	-	1605.89	-	-	1.4	2.0	
GDT Ripple	Deviation	1597.55	-	1605.89	ns	-	3.7	15	
Attenuation		10	-	699	dB	40	56	-	
		703	-	798	dB	45	56	-	
		814	-	915	dB	50	56	-	B26/ B8Tx
		1427	-	1463	dB	45	65	-	B11/ B21
		1710	-	1797	dB	50	57	-	B3Tx , Average any 5MHz
		1850	-	1980	dB	45	52	-	B2Tx
		2010	-	2570	dB	40	48	-(B34Tx/ B30Tx/ 2.4G ISM/ B7Tx
		3300	-	4200	dB	30	49	- \	N78/ N77
		4400	-	5000	dB	27	49	-	N79
		5150	-	5950	dB	25	40	-	5G ISM



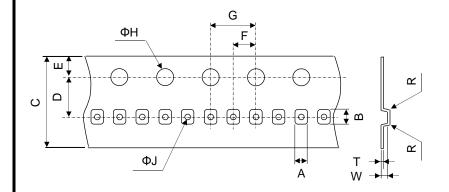






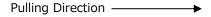


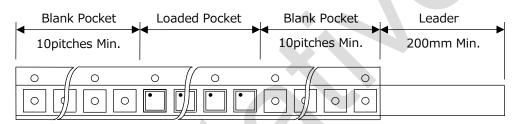
Tape & Reel Specification [Tape]



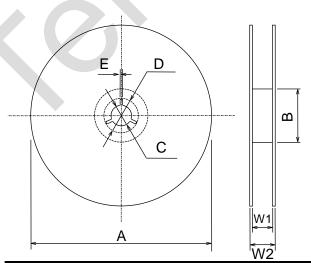
	Unit : mm
Part	Dimension
Α	1.1±0.05
В	1.3±0.05
C	8.0±0.1
D	3.5±0.05
Е	1.75±0.1
F	2.0±0.05
G	4.0±0.05
φН	1.5+0.1/-0
φJ	0.50±0.05
R	0.1 Max
W	0.60±0.05
Т	0.20+0.03/-0.02
	<u> </u>

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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