Datasheet of SAW Filter
1411 GNSS

KYOCERA Part No. : SF14-1582M5UUE2

Rating

| Items	Rating	Unit	Note
Operating Temperature Range	-30 to +85	deg.C	
Storage Temperature Range	-40 to +85	deg.C	
Max Input Power	+12	dBm	5,000Hours,Ta=50deg.C, CW
Input Port Nominal Impedance	50	ohm	Unbalance
Output Port Nominal Impedance	50	ohm	Unbalance

Dimensions

(Top View)

1.4±0.1
(5) (4)

* G C

XXXX

(1)

1.1±0.1

0.7 max.

(2) (3)
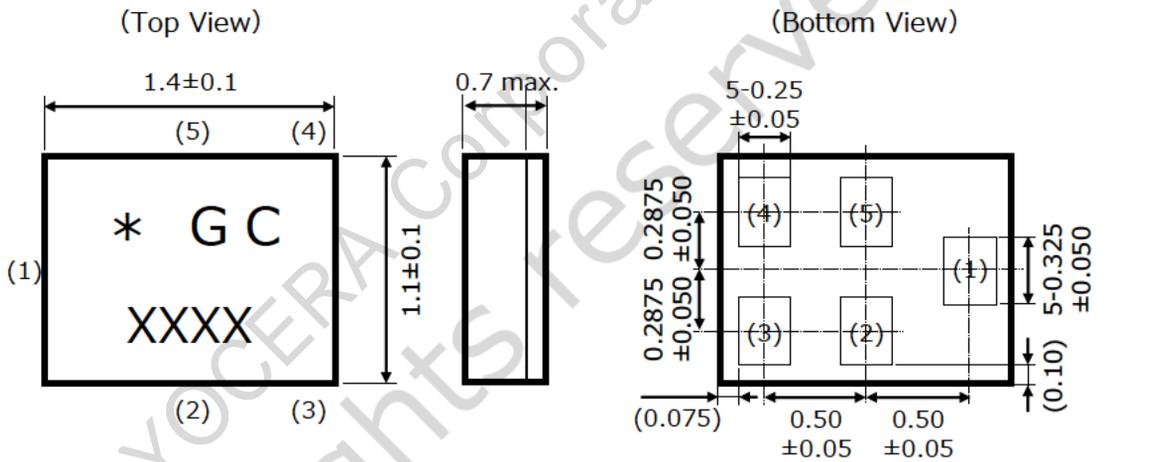
* : Identification logo
GB : Identification no.
XXXX : Production code

(Bottom View)

5-0.25
±0.05

0.2875 ±0.050   0.2875 ±0.050

(4) (5)

(1) 5-0.325 ±0.050

(3) (2)

(0.075) 0.50 ±0.05 0.50 ±0.05 (0.10)

Unit : mm

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

Recommendable Land Pattern

(Top View)

5-0.25

5-0.325

(5) (4)

(1)

(2) (3)

0.2875

0.2875

0.50 0.50

Measurement Circuit

(Top View)

Output
(4)
Input
(1) 50 ohm
50ohm
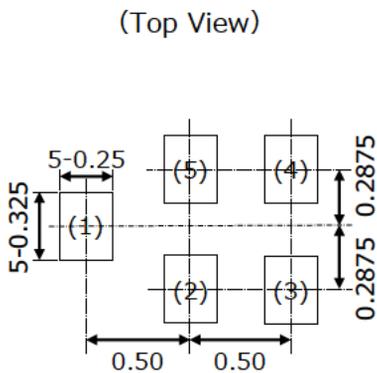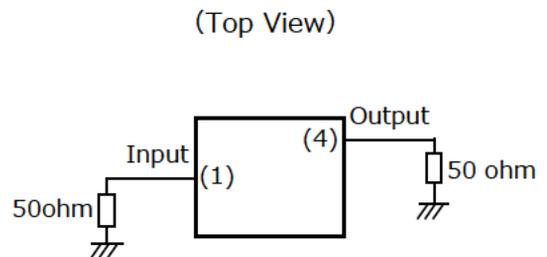
Electrical Characteristics

ITEMS	Frequency (MHz)			Characteristics			Unit	Note
				min.	typ.	max.		
Nominal Center Frequency	-				1582		MHz	
Insertion Loss	1559.00	to	1574.42	-	1.2	1.8	dB	0~+85℃
						2.2	dB	-30~+85℃
	1574.42	to	1576.42	-	0.7	1.6	dB	
	1576.42	to	1597.55	-	1.0	1.8	dB	
	1597.55	to	1605.89	-	1.2	2.0	dB	
Ripple (peak to peak)	1559.00	to	1605.89	-	0.9	2.0	dB	
Input VSWR	1559.00	to	1585.42	-	1.8	2.2	-	
	1597.55	to	1605.89	-	1.4	2.1	-	
Output VSWR	1559.00	to	1585.42	-	1.8	2.2	-	
	1597.55	to	1605.89	-	1.4	2.1	-	
Absolute Attenuation	1	to	925	30	32	-	dB	
	925	to	960	30	32	-	dB	
	1427	to	1453	39	41	-	dB	
	1453	to	1501	40	44	-	dB	
	1501	to	1525	35	42	-	dB	
	1626	to	1660	1.5	14	-	dB	
	1710	to	1785	34	37	-	dB	
	1850	to	1910	35	38	-	dB	
	1920	to	1980	36	39	-	dB	
	2110	to	2170	39	41	-	dB	
	2400	to	2500	42	45	-	dB	
	2500	to	2570	40	45	-	dB	

Electrical Characteristics
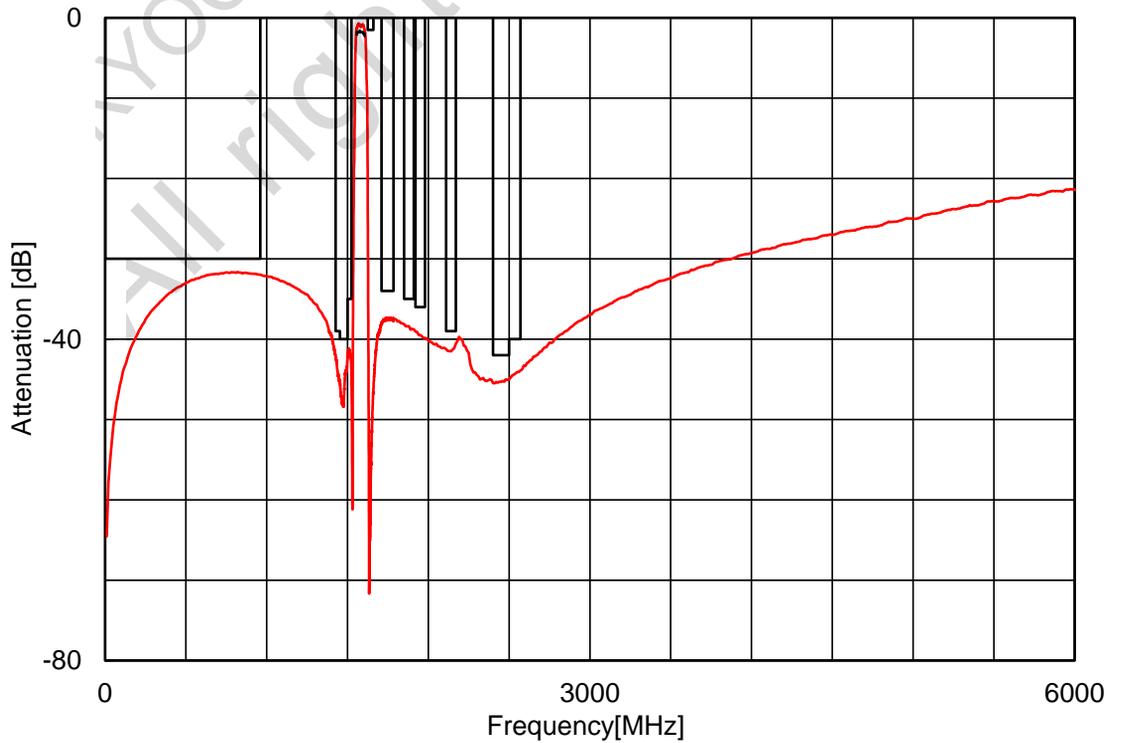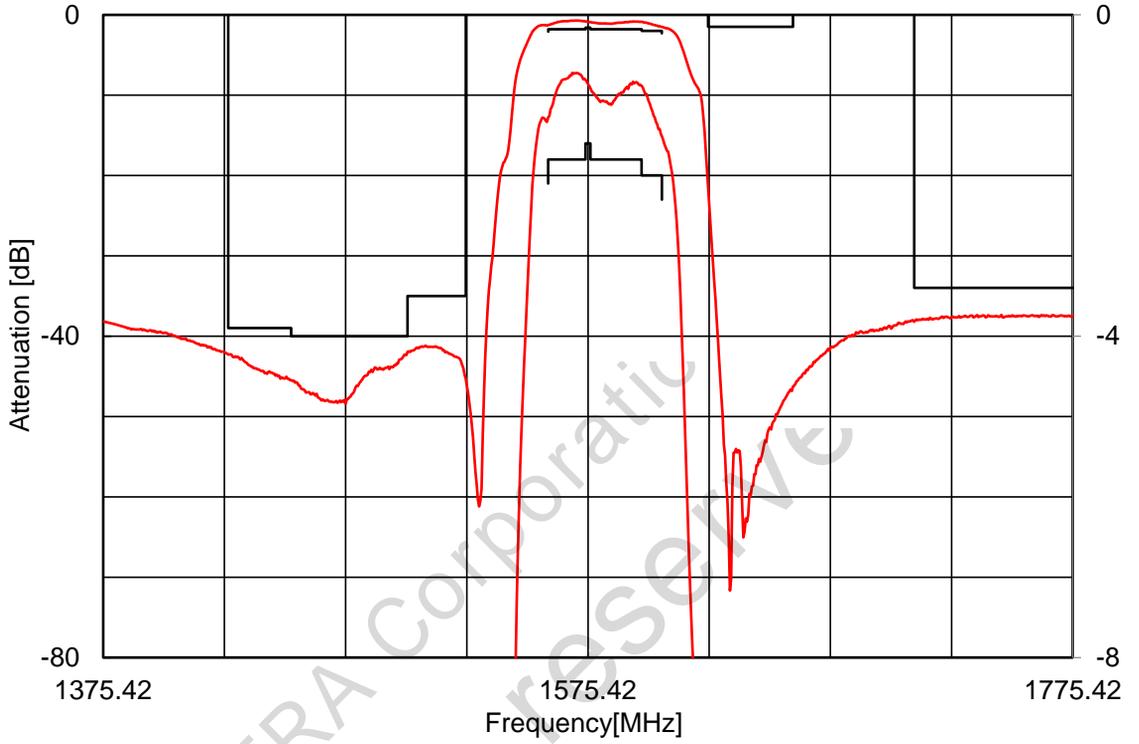
Electrical Characteristics
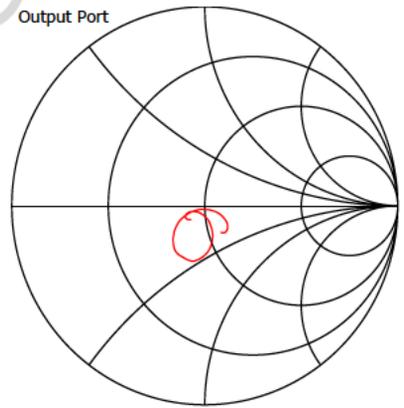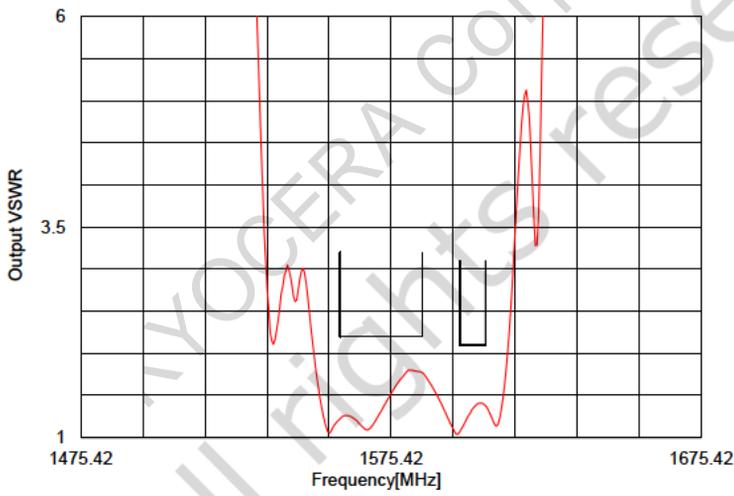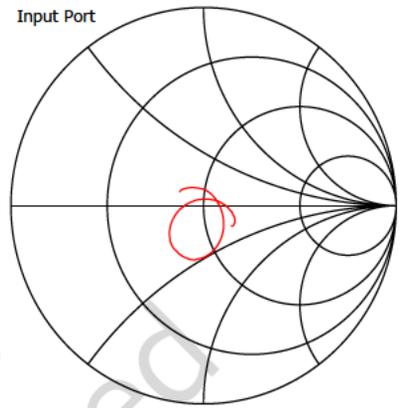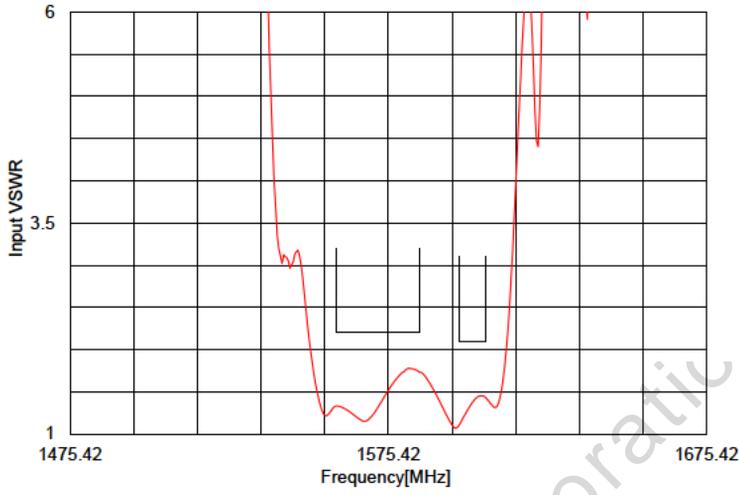
Tape & Reel Specification

[Tape]
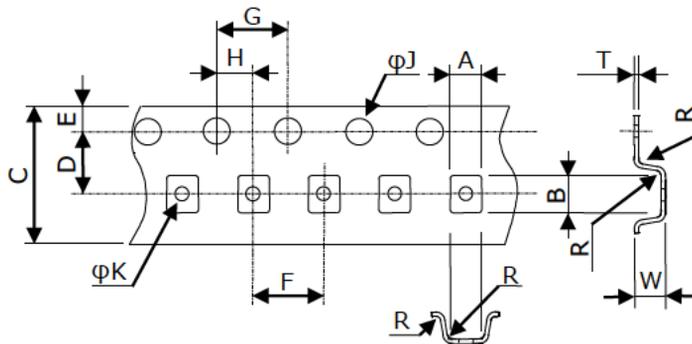
Part	Dimension
A	1.30±0.05
B	1.60±0.05
C	8.00±0.15
D	3.50±0.05
E	1.75±0.10
F	4.0±0.1
G	4.0±0.1
H	2.00±0.05
φJ	1.5+0.1/-0
φK	0.5±0.1
R	0.2 Max
W	0.70±0.05
T	0.20±0.05

Unit : mm

W : Dimension is depth of pockets.

Pulling Direction →

Blank Pocket	Loaded Pocket	Blank Pocket	Leader
10pitches Min.		10pitches Min.	200mm Min.
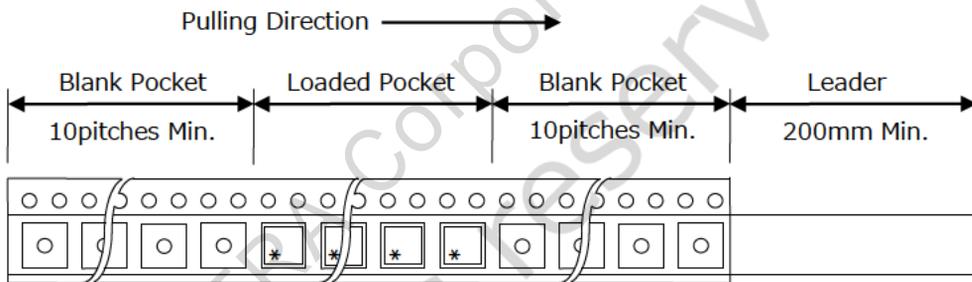
[Reel]
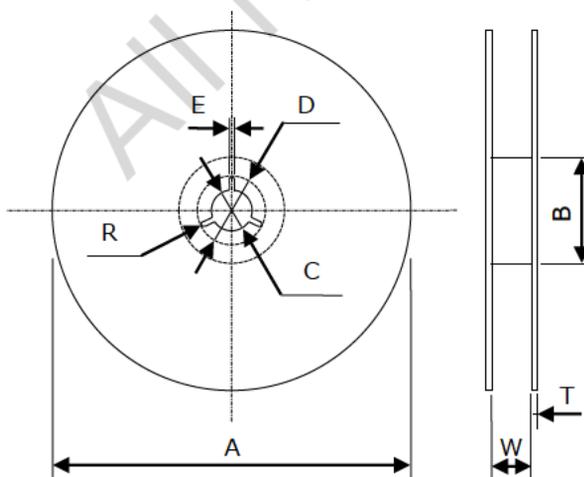
Part	Dimension
A	178 ± 2
B	60 ± 2
C	13.0 ± 0.2
D	21.0 ± 0.8
E	2.0 ± 0.5
R	1
W	9.5 ± 1.0
T	2.0 ± 0.2

Unit : mm

Notice

1. Characteristics described in this datasheet are for references specifications shall be based on written documents agreed by each party.

2. Contents in this datasheet are subject to change without notice. It is recommended to confirm the latest information at the time of usage. Also, this datasheet is revised once a year. We may not be able to accept requests based on old datasheets.

3. Products in this datasheet are intended to be used in general electronic equipment such as office equipment, audio and visual equipment, communication equipment, measurement instrument and home appliances. It is absolutely recommended to consult with our sales representatives in advance upon planning to use our products in applications which require extremely high quality and reliability such as aircraft and aerospace equipment, traffic systems, safety systems, power plant and medical equipment including life maintenance systems.

4. Even though we strive for improvements of quality and reliability of products, it is requested to design with enough safety margin in equipment or systems in order not to threaten human lives directly or damage human bodies or properties by an accidental result of products.

5. It is requested to design based on guaranteed specifications for such as maximum ratings, operating voltage and operating temperature. It is not the scope o our guarantee for unsatisfactory results due to misuse or inadequate usage of products in the datasheet.

6. Operation summaries and circuit examples in this datasheet are intended to explain typical operation and usage of the product. It is recommended to perform circuit and assembly design considering surrounding conditions upon using products in this datasheet.

7. Technical information described in this datasheet is meant to explain typical operations and applications of products, and it is not intended to guarantee or license intellectual properties or other industrial rights of the third party or Kyocera.

8. Trademarks, logos and brand names used in this datasheet are owned by Kyocera or the corresponding third party.

9. Certain products in this datasheet are subject to the Foreign Exchange and Foreign Trade Control Act of Japan, and require the license from Japanese Government upon exporting the restricted products and technical information under the law. Besides, it is requested not to use products and technical information in the datasheet for the development and/or manufacture of weapons of mass destruction or other conventional weapons, nor to provide them to any third party with the possibility of having such purposes.

10. It is prohibited to reprint and reproduce a part or whole of this datasheet without permission.