

# Datasheet of SAW Filter

## 1411 Band41 TRx

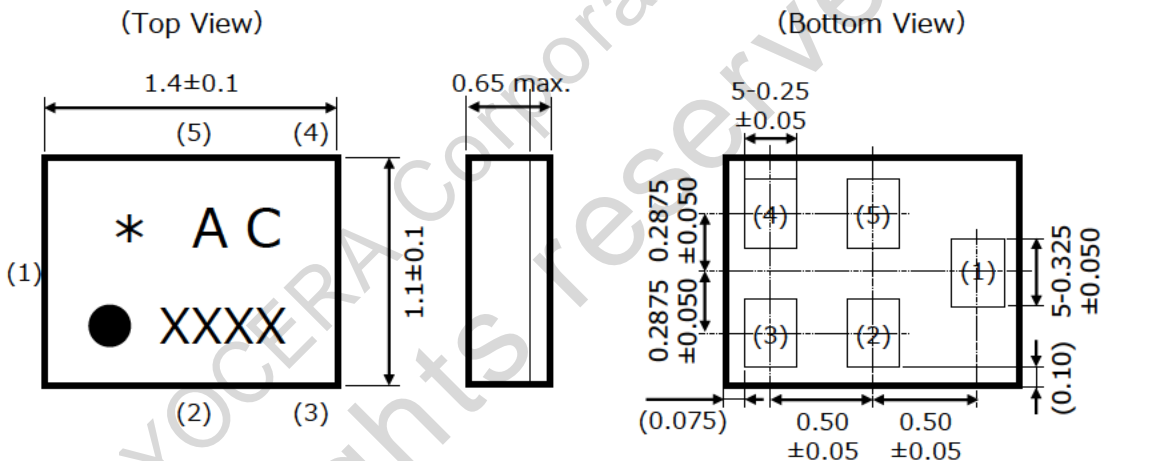
KYOCERA Part No. : SF14-2593M5UUB1

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### Rating

Items	Rating	Unit	Note
Operating Temperature Range	-20 to +85	deg.C	
Storage Temperature Range	-40 to +85	deg.C	
Max Input Power (TRx port)	+33	dBm	5,000Hours, Ta=50deg.C, DFT-s-OFDM
	+31.5	dBm	5,000Hours, Ta=50deg.C, CP-OFDM
TRx Port Nominal Impedance	50//1.2pF,+2.3nH	ohm	Unbalance
Ant. Port Nominal Impedance	50//1.0pF,+2.9nH	ohm	Unbalance

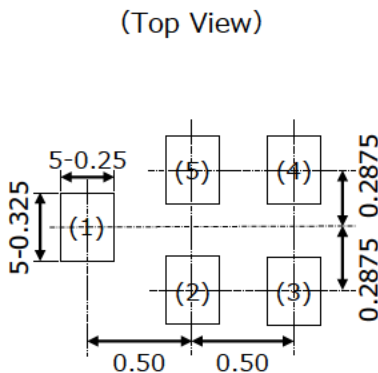
### Dimensions



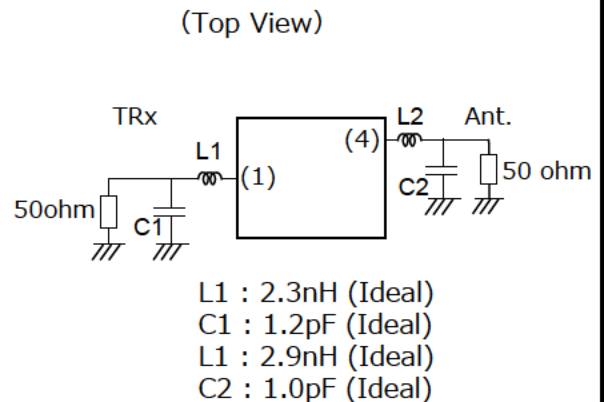
- \* : Identification mark
- AC : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

### Recommendable Land Pattern



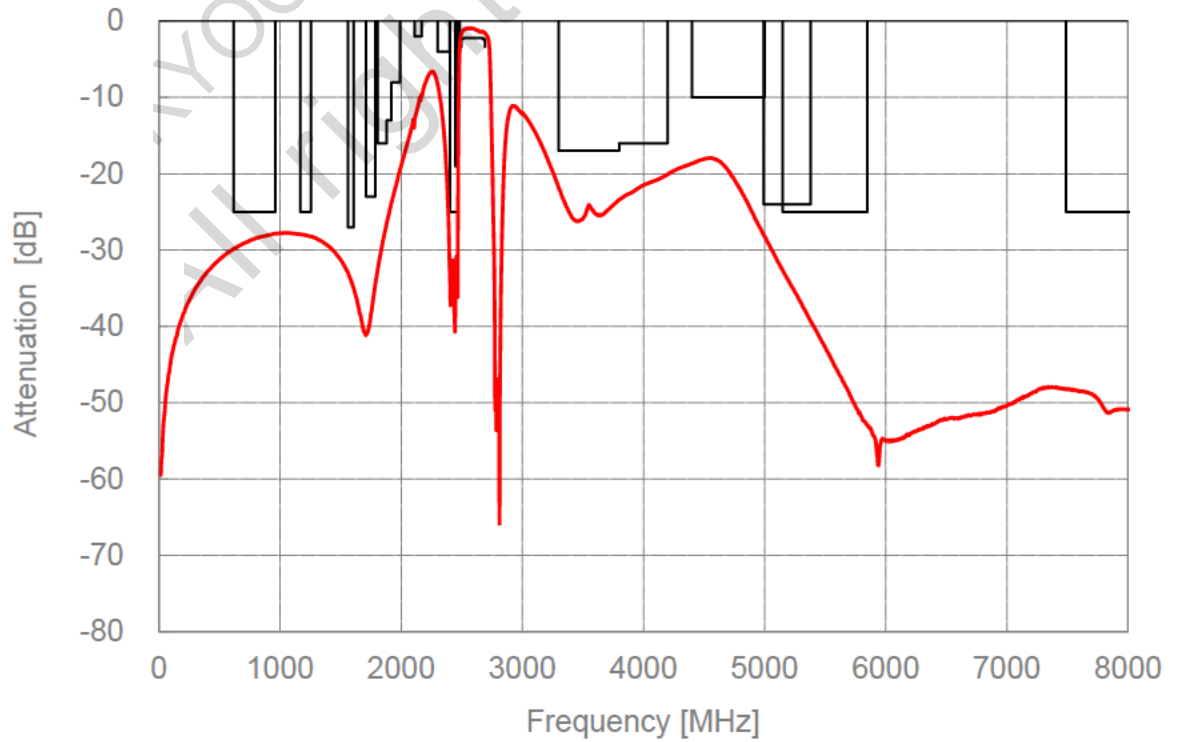
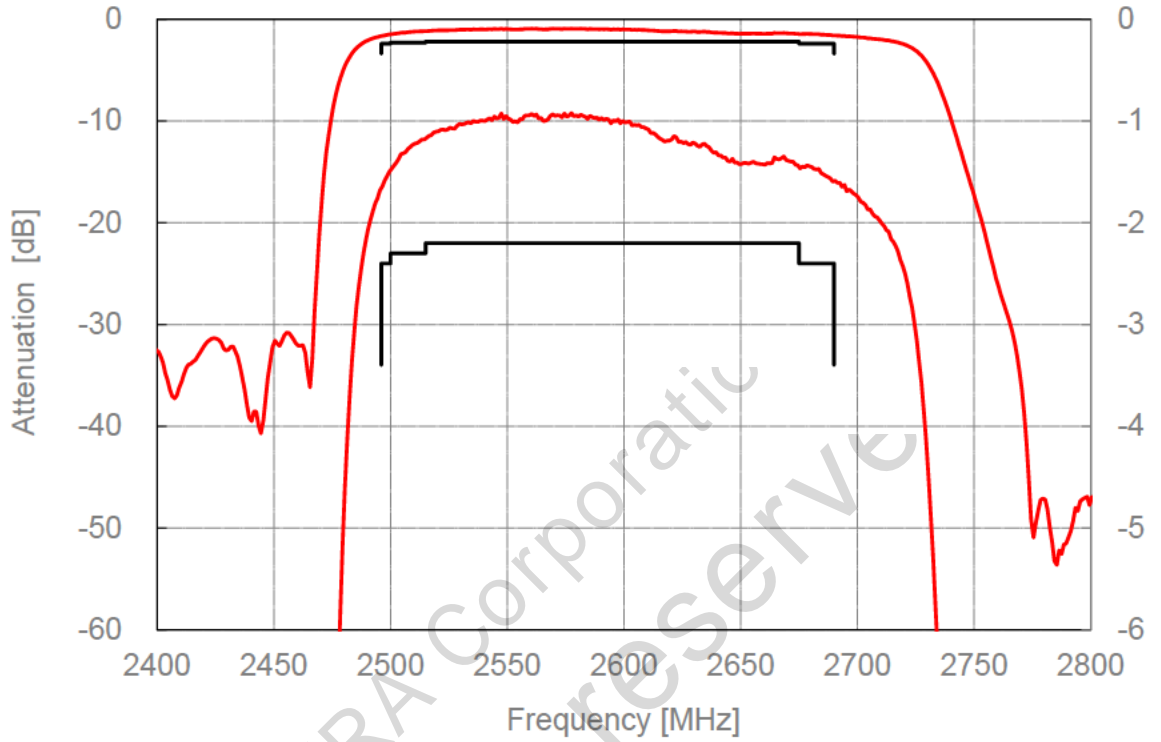
### Measurement Circuit



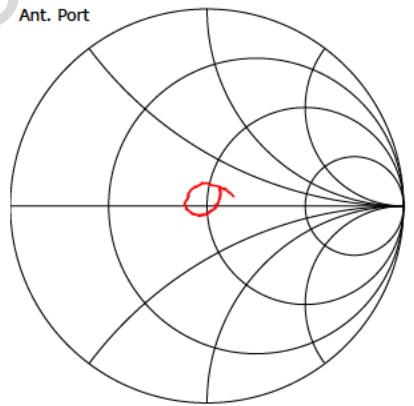
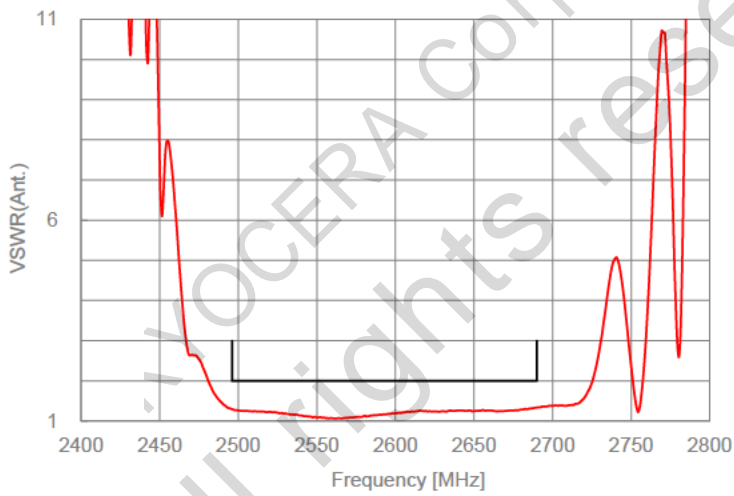
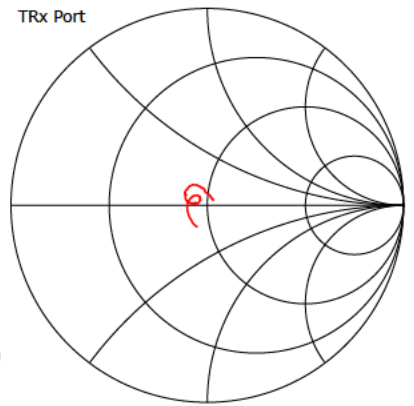
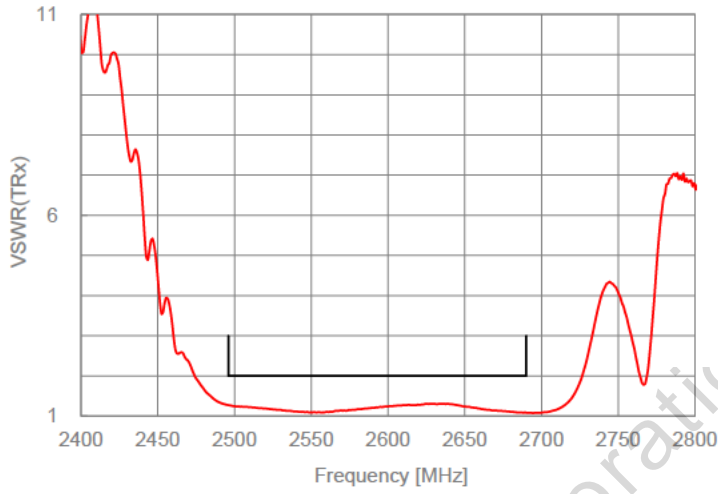
## Electrical Characteristics

Items	frequency (MHz)	Characteristics			Unit	Notes
		min.	Typ.	max.		
Nominal Center Frequency	-	2593			MHz	
Insertion Loss	2496 to 2500	-	1.7	2.4	dB	
	2500 to 2515	-	1.5	2.3	dB	
	2515 to 2545	-	1.2	2.2	dB	
	2545 to 2575	-	1.0	2.2	dB	
	2575 to 2690	-	1.5	2.2	dB	
Input VSWR(TRx)	2496 to 2690	-	1.3	2.0	-	
Output VSWR(Ant)	2496 to 2690	-	1.3	2.0	-	
Attenuation	617 to 960	25	28	-	dB	LB
	1166.22 to 1254	25	28	-	dB	GPS L5+L2
	1559.052 to 1605.89	27	33	-	dB	GPS L1
	1710 to 1785	23	35	-	dB	B3 Tx
	1805 to 1880	16	27	-	dB	B3 Rx
	1880 to 1920	13	24	-	dB	B39
	1920 to 1990	8	19	-	dB	B1 Tx
	2110 to 2170	2	10	-	dB	B1 Rx
	2300 to 2400	4	8	-	dB	B40
	2402 to 2462	25	32	-	dB	WiFi CH1-9,Ave.for 19MHzBW
	2447 to 2467	19	32	-	dB	WiFi CH10,Ave.for 19MHzBW
	2452 to 2472	12	28	-	dB	WiFi CH11,Ave.for 19MHzBW
	2457 to 2477	7	19	-	dB	WiFi CH12,Ave.for 19MHzBW
	2462 to 2482	4	12	-	dB	WiFi CH13,Ave.for 19MHzBW
	3300 to 3800	17	22	-	dB	n78
	3800 to 4200	16	20	-	dB	n77
	4400 to 5000	10	18	-	dB	n79
	4992 to 5380	24	28	-	dB	2fo
5150 to 5850	25	33	-	dB	WiFi 5G	
7488 to 8070	25	48	-	dB	3fo	

### Electrical Characteristics

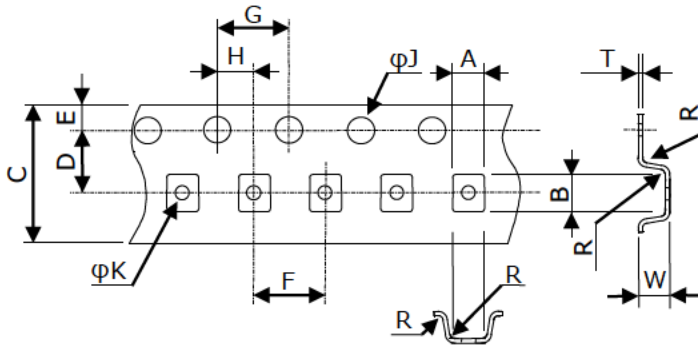


**Electrical Characteristics**



### Tape & Reel Specification

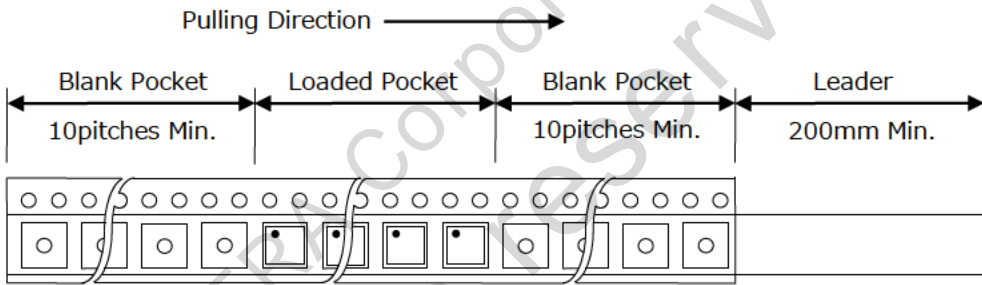
#### [Tape]



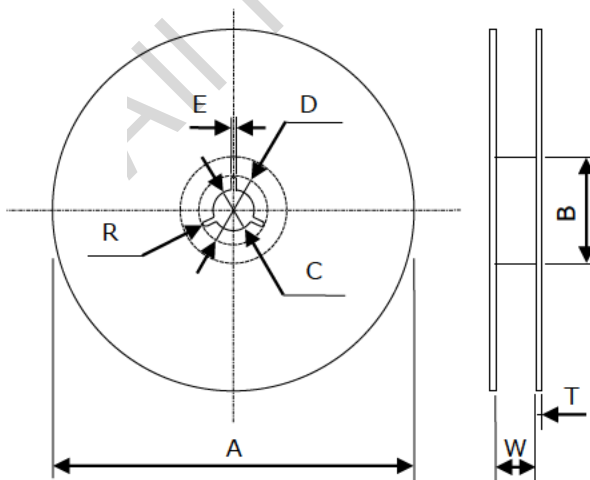
Unit : mm

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

W : Dimension is depth of pockets.



#### [Reel]



Unit : mm

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

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