Rev.01

RoHS Compliant

Datasheet of SAW Duplexer

2520 Band40TRx filter for Base station

KYOCERA Part No. : SF25-2345R9UUA1

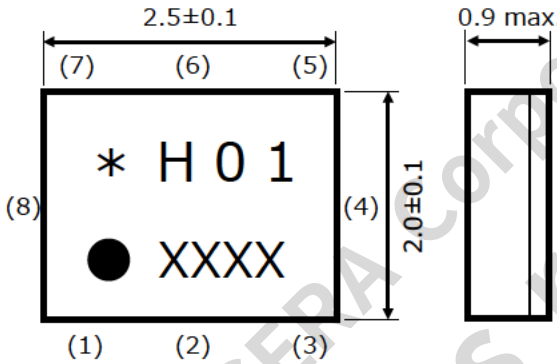
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Rating

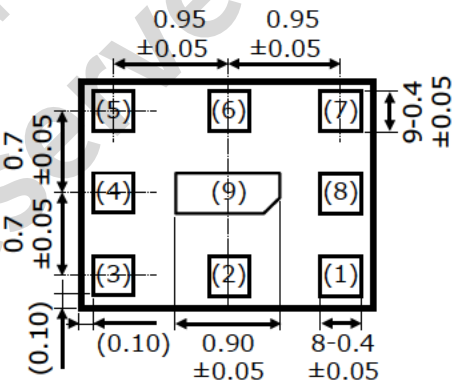
Items		Rating	Unit	Note
Operating Temperature Range		-40 to +95	deg.C	
Storage Temperature Range		-40 to +125	deg.C	Product only
Max Input Power	Tx Port:	30	dBm	Average LTE 5MHz(PAR=8dB) 10Years@75℃
Ant Port Nominal Impedance		50 // La(4.5nH)	ohm	Unbalance
Tx Port Nominal Impedance		50 // Lt(6.8nH)	ohm	Unbalance

Dimensions

(Top View)



(Bottom View)



Unit : mm

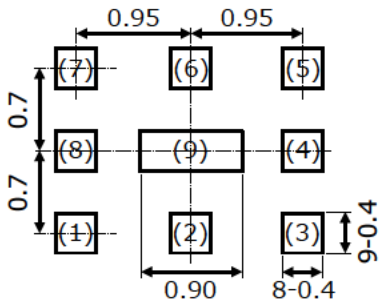
* : Identification mark
H01 : Identification no.
● : Index mark of pin 1
XXXX : Production code

Pin No.	Function
(1)	Input(Tx/Rx)
(3)	Open
(6)	Output(Ant)
Others	GND

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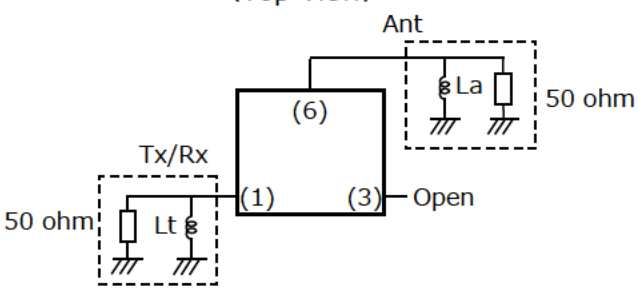
Recommendable Land Pattern

(Top View)



Measurement Circuit

(Top View)



Lt : 6.8nH (Ideal)
La : 4.5nH (Ideal)

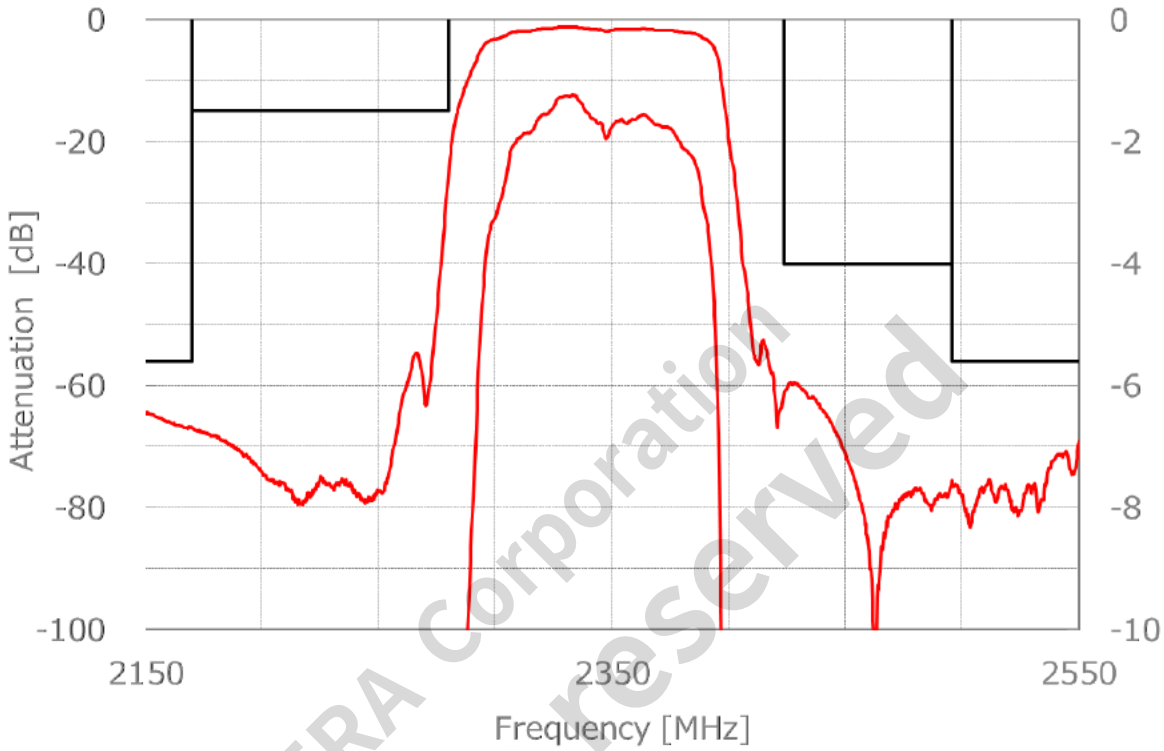
Electrical Characteristics

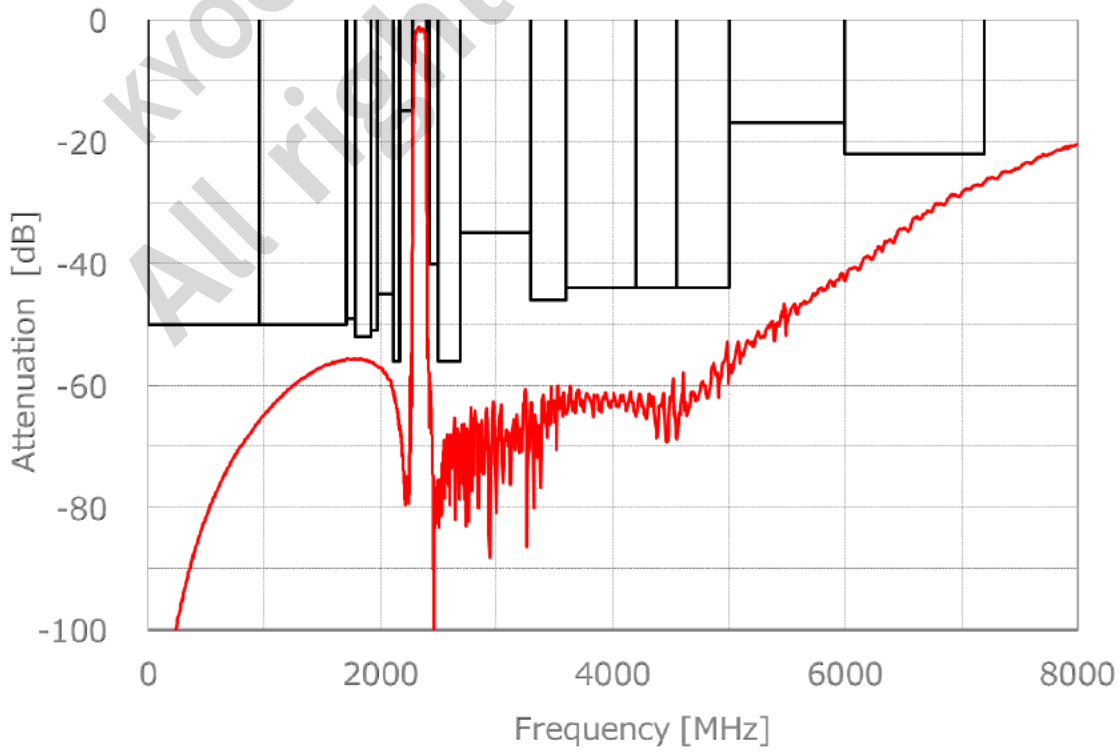
Items			Frequency (MHz)			Unit	Specificatioin			Notes
							min.	typ.	max.	
TX to ANT	Insertion Loss		2300	-	2380	dB	-	1.8	3.0	Average over any 40MHz
			2380	-	2390	dB	-	2.4	4.5	Average over any 10MHz
	Ripple		2300	-	2380	dB	-	2.0	3.0	-20 to +80 deg.C
			2380	-	2390	dB	-	2.0	5.5	-20 to +80 deg.C
			2320	-	2370	dB	-	0.7	2.8	-40 to +95 deg.C
	VSWR	Tx	2300	-	2390	-	-	1.4	2.2	
		Ant	2300	-	2390	-	-	1.4	2.3	
	Attenuation		0.009	-	960	dB	50	66	-	
			960	-	1710	dB	50	56	-	
			1710	-	1785	dB	49	56	-	
			1785	-	1920	dB	52	56	-	
			1920	-	1980	dB	51	56	-	
			1980	-	2110	dB	45	57	-	
			2110	-	2170	dB	56	61	-	
			2170	-	2280	dB	15	26	-	
			2402	-	2424	dB	19	42	-	Average over any 22MHz -30 to +95 deg.C
			2424	-	2496	dB	40	60	-	
			2496	-	2690	dB	56	66	-	
			2690	-	3300	dB	35	61	-	
			3300	-	3600	dB	46	60	-	
			3600	-	4200	dB	44	60	-	
			4200	-	4550	dB	44	59	-	
			4550	-	5000	dB	44	53	-	
			5000	-	6000	dB	17	42	-	
			6000	-	7200	dB	22	27	-	

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Electrical Characteristics

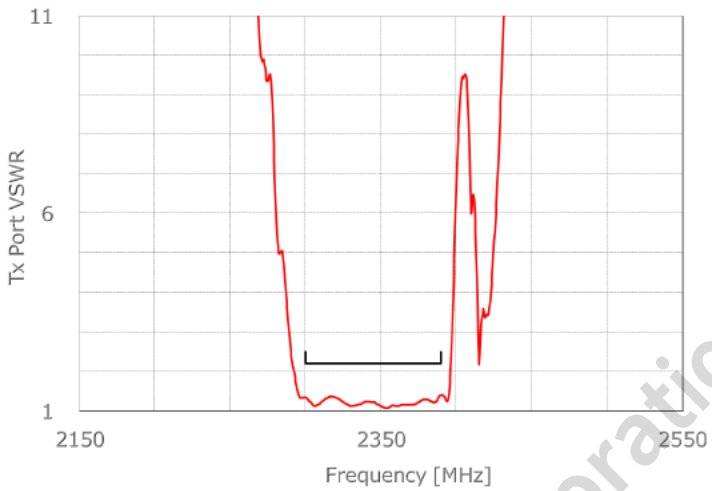
[Ant ro Rx]

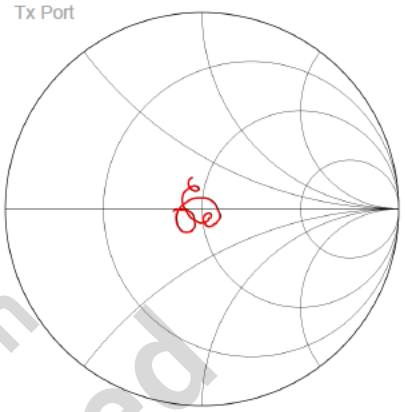


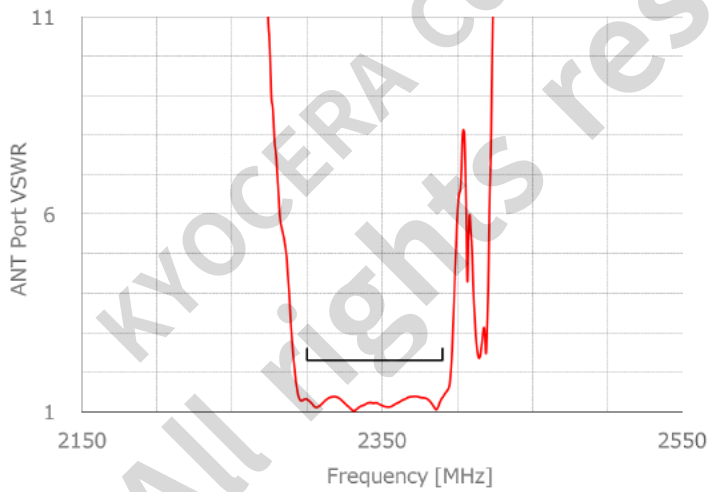


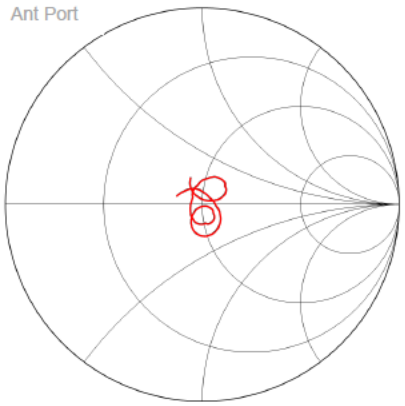
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Electrical Characteristics





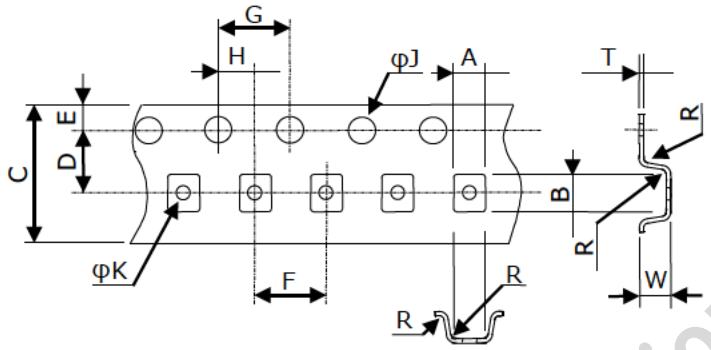




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Tape & Reel Specification

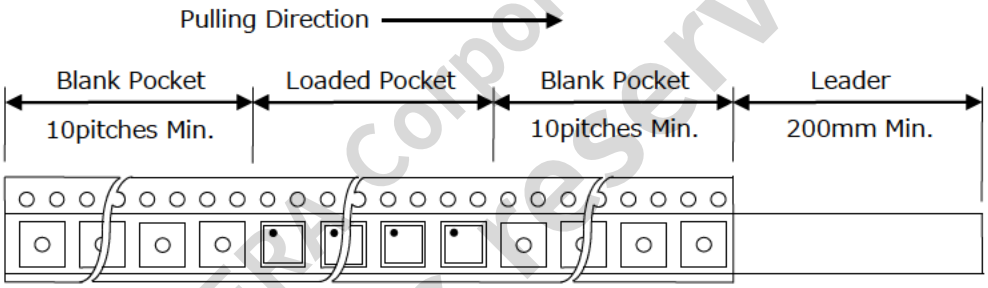
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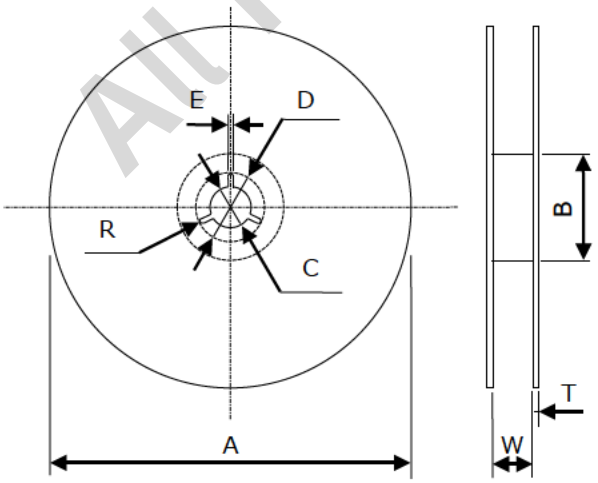
Unit : mm

Part	Dimension
A	2.3±0.1
B	2.8±0.1
C	8.0±0.1
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
φK	1.0±0.1
R	0.3 Max
W	0.9±0.1
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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