

# Datasheet of SAW Duplexer 2520 Band66(4) for Base station

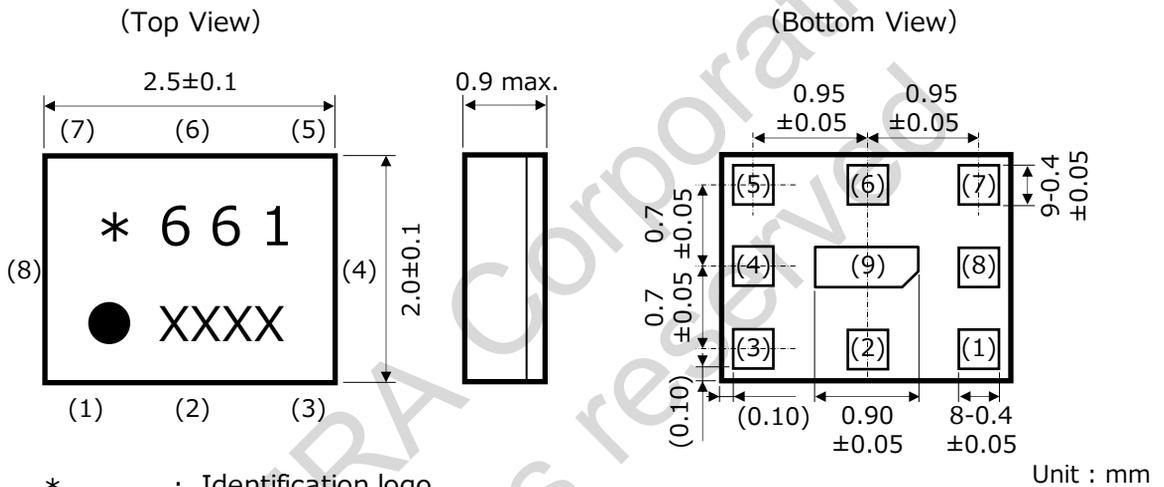
KYOCERA Part No. : SD25-2155R9UUA1

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### Rating

Items	Rating	Unit	Note
Operating Temperature Range	-40 to +95	deg.C	
Storage Temperature Range	-40 to +95	deg.C	
Max Input Power (Tx port)	+29	dBm	LTE 5MHz (PAR=8.0dB) 10 years @95deg.C
Tx Port Nominal Impedance	50//4.3nH	ohm	Unbalance
Ant. Port Nominal Impedance	50//3.0nH	ohm	Unbalance
Rx Port Nominal Impedance	50//6.8nH	ohm	Unbalance

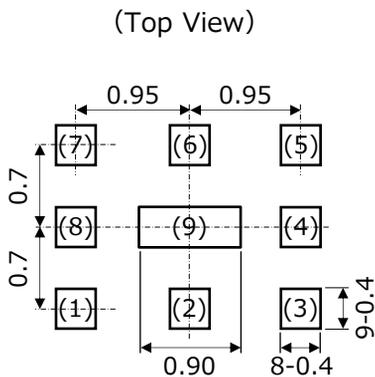
### Dimensions



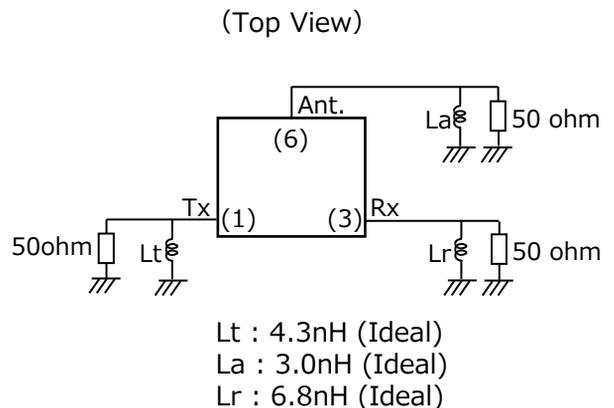
- \* : Identification logo
- 661 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

Pin No.	Function
(1)	Tx
(3)	Rx
(6)	Ant.
Others	GND

### Recommendable Land Pattern



### Measurement Circuit

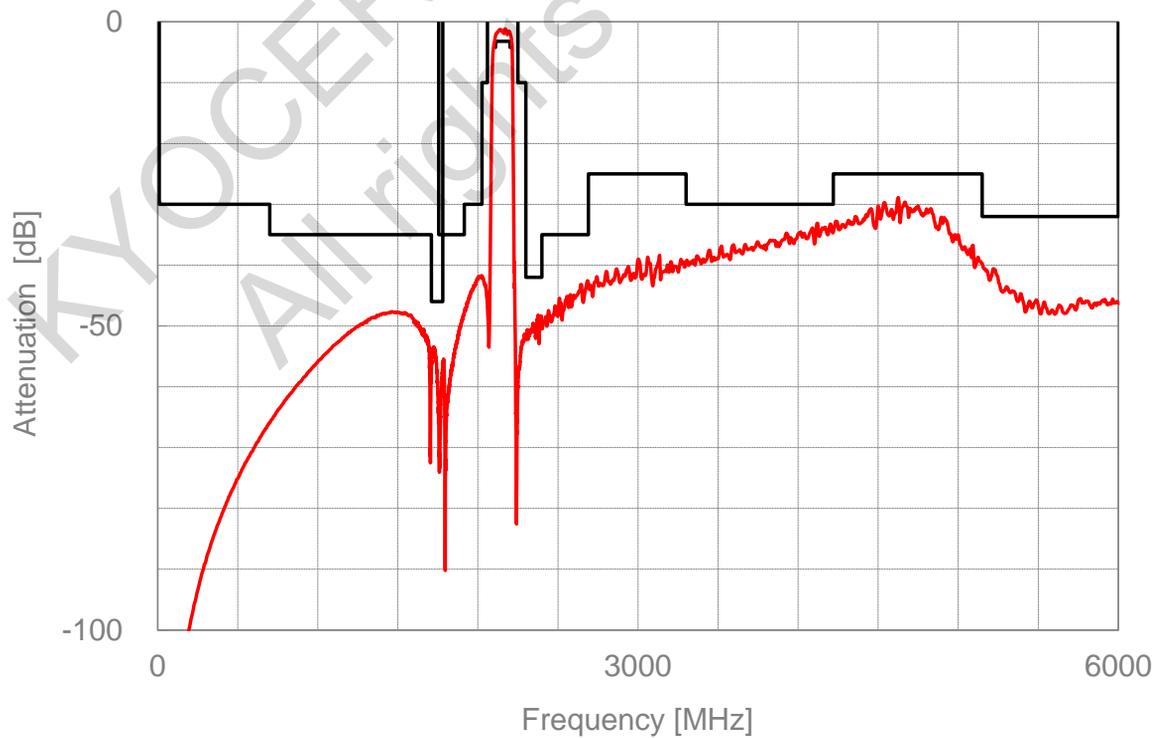
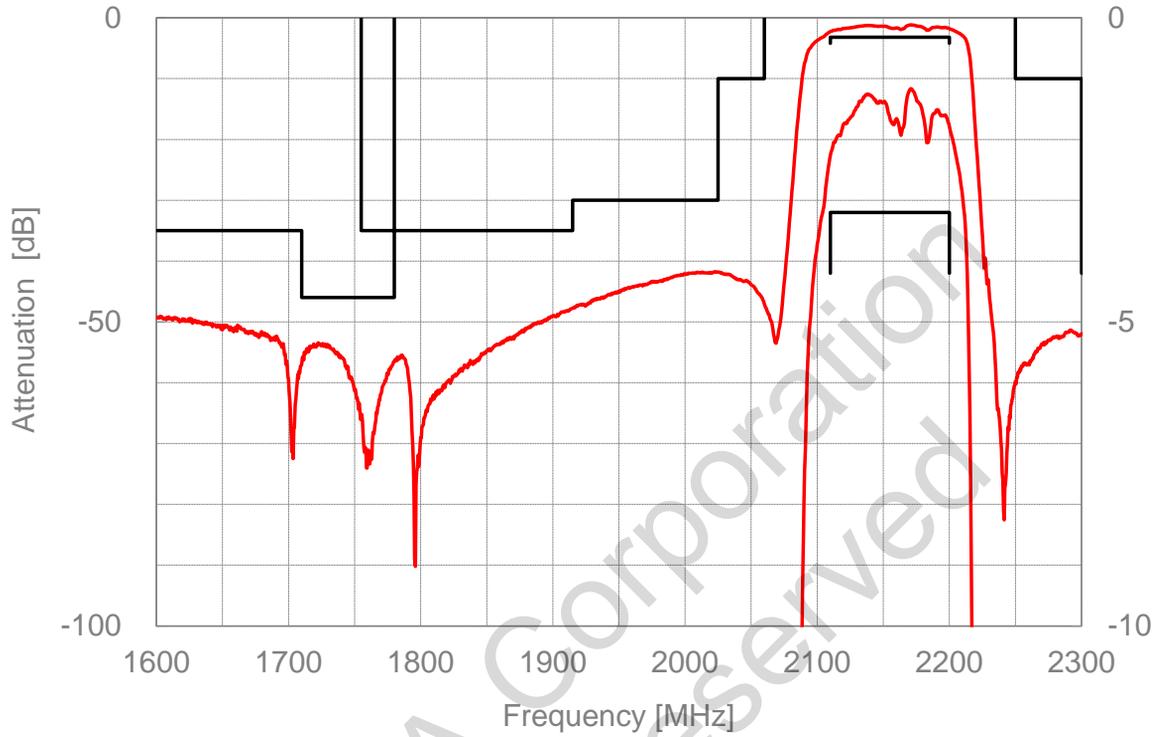


## Electrical Characteristics

ITEMS		Frequency (MHz)	Characteristics			Unit	Note
			min.	typ.	max.		
Tx to Ant	Insertion Loss	2110 - 2200	/	2.0	3.2	dB	Average over any 10MHz
	Ripple	2110 - 2200	/	1.1	2.7	dB	
	VSWR (Tx)	2110 - 2200	/	1.6	2.2	-	
	VSWR (Ant)	2110 - 2200	/	1.5	2.2	-	
	Absolute Attenuation	10 - 700	30	66	/	dB	
		700 - 960	35	57	/	dB	
		960 - 1710	35	48	/	dB	
		1710 - 1780	46	53	/	dB	
		1755 - 1850	35	55	/	dB	
		1850 - 1915	35	48	/	dB	
		1915 - 2025	30	42	/	dB	
		2025 - 2060	10	42	/	dB	
		2250 - 2300	10	51	/	dB	
		2300 - 2400	42	48	/	dB	
		2400 - 2484	35	47	/	dB	
		2484 - 2690	35	43	/	dB	
		2690 - 3300	25	38	/	dB	
		3300 - 4220	30	33	/	dB	
4220 - 5150	25	29	/	dB			
5150 - 6000	32	40	/	dB			
Ant to Rx	Insertion Loss	1710 - 1780	/	1.7	2.6	dB	Average over any 5MHz
	Ripple	1710 - 1780	/	1.2	2.5	dB	
	VSWR (Rx)	1710 - 1780	/	1.3	2	-	
	VSWR (Ant)	1710 - 1780	/	1.4	2	-	
	Absolute Attenuation	10 - 960	35	53	/	dB	
		960 - 1600	30	45	/	dB	
		1600 - 1690	15	30	/	dB	
		1800 - 1930	10	28	/	dB	-40~-20°C
			12	/	/	dB	-20+95°C
		1930 - 1995	40	46	/	dB	
		1995 - 2110	25	47	/	dB	
		2110 - 2200	45	49	/	dB	
		2155 - 2300	25	47	/	dB	
		2300 - 2400	40	46	/	dB	
		2400 - 2690	38	43	/	dB	
		2690 - 3300	25	37	/	dB	
		3300 - 5150	20	38	/	dB	
		5150 - 6000	15	27	/	dB	
Tx to Rx	Isolaion	1710 - 1780	50	55	/	dB	Average over any 5MHz
		2110 - 2200	48	54	/	dB	Average over any 5MHz

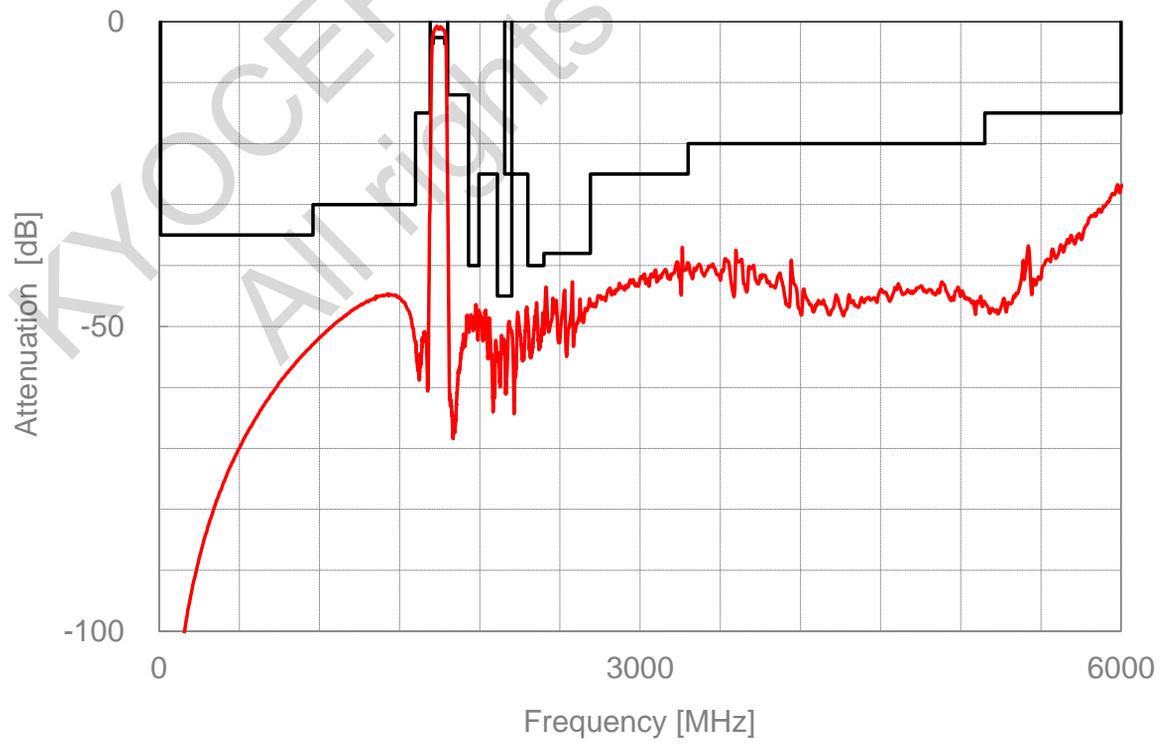
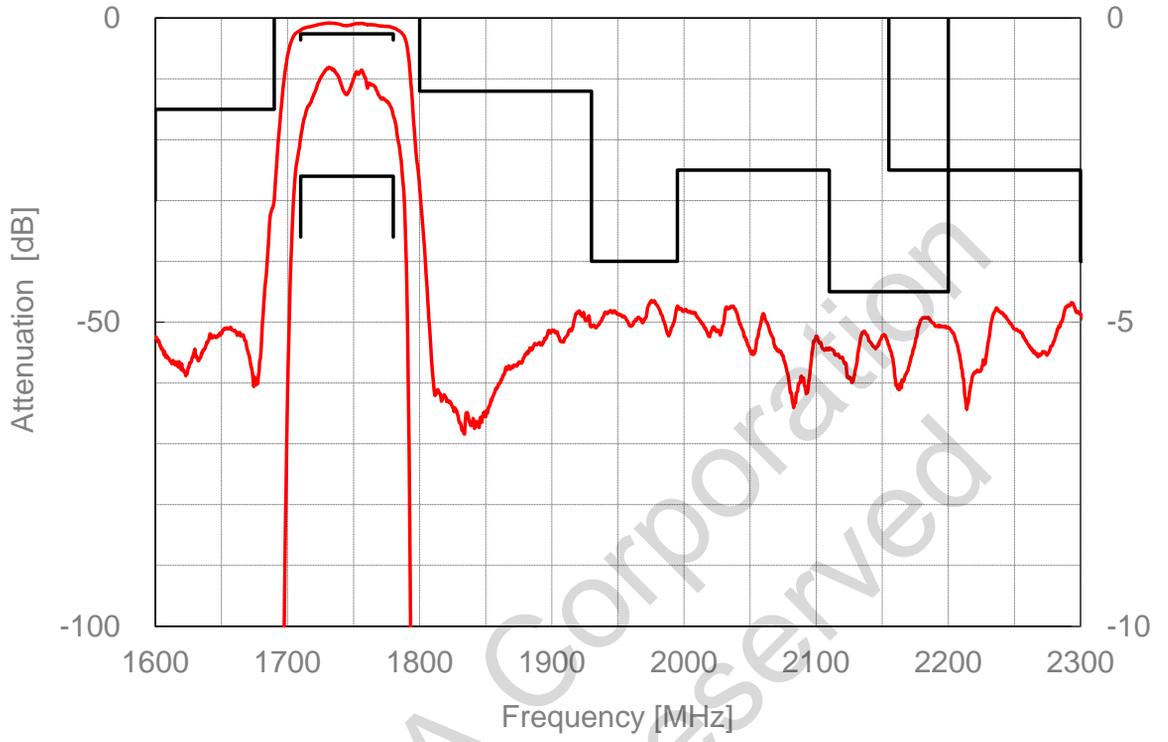
**Electrical Characteristics**

[Tx to Ant]



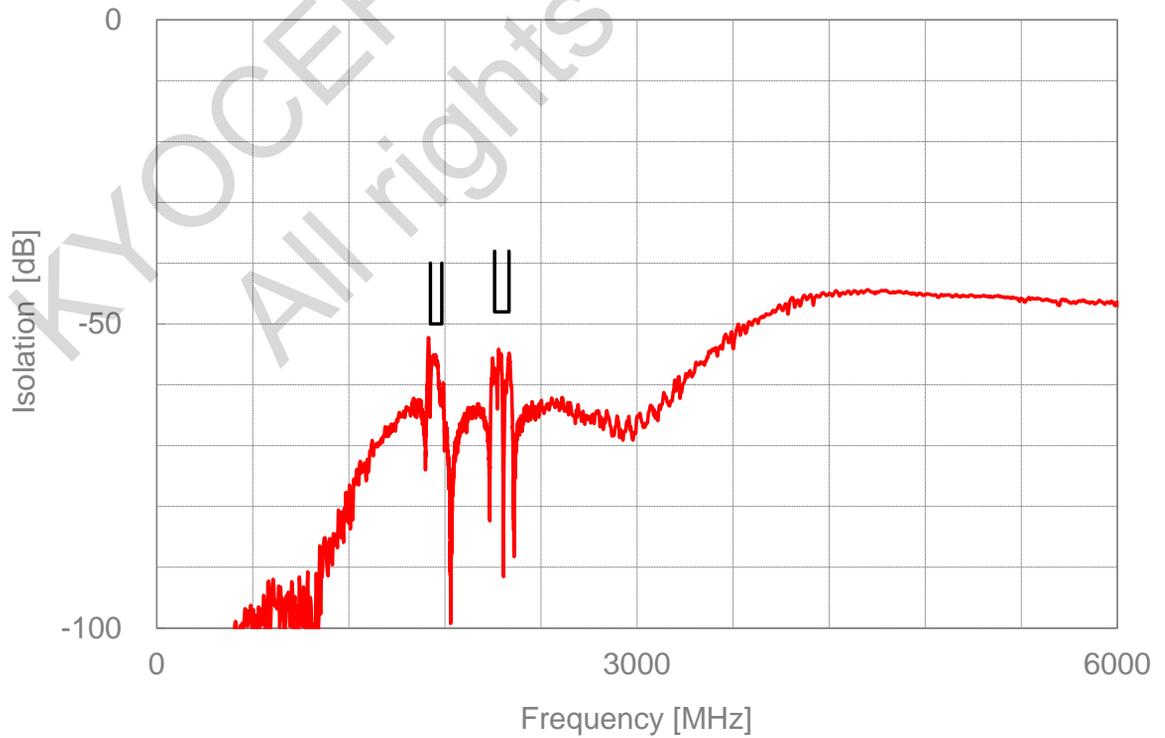
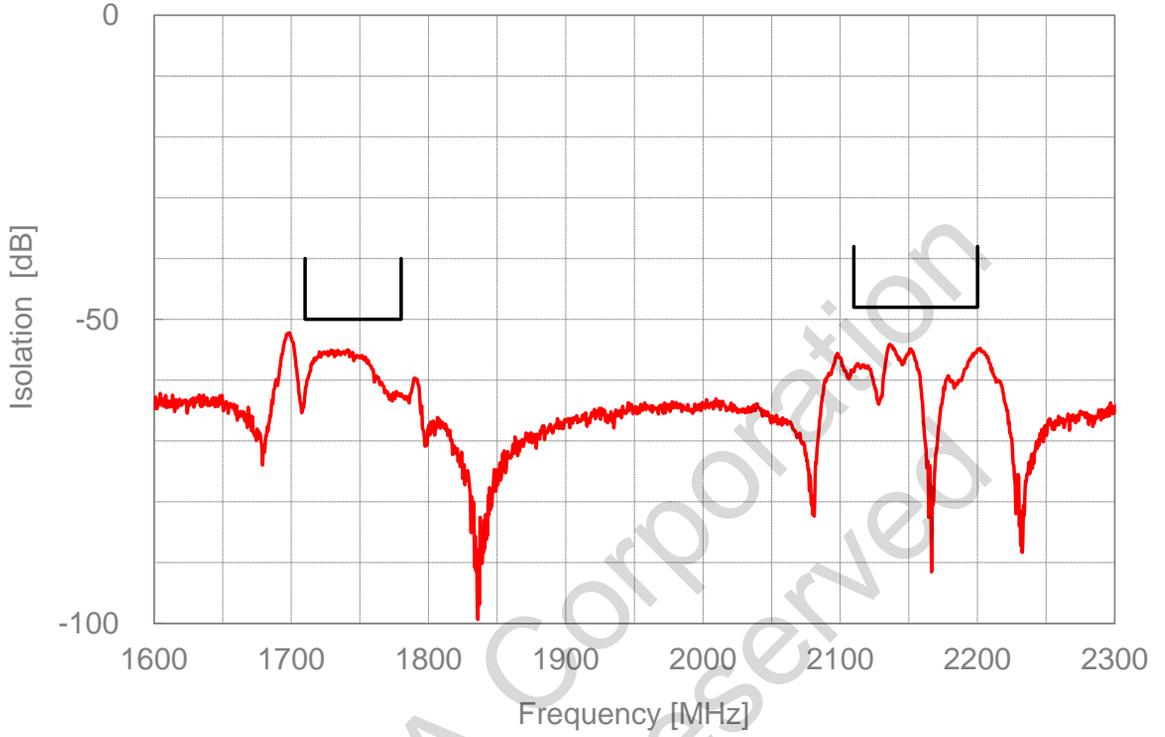
**Electrical Characteristics**

[Ant to Rx]

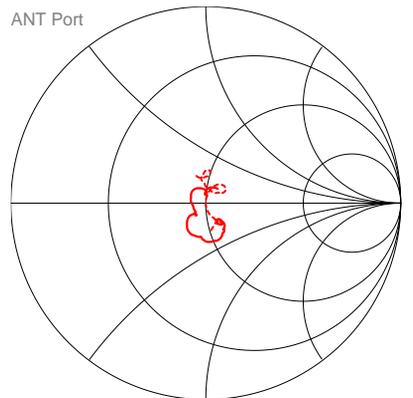
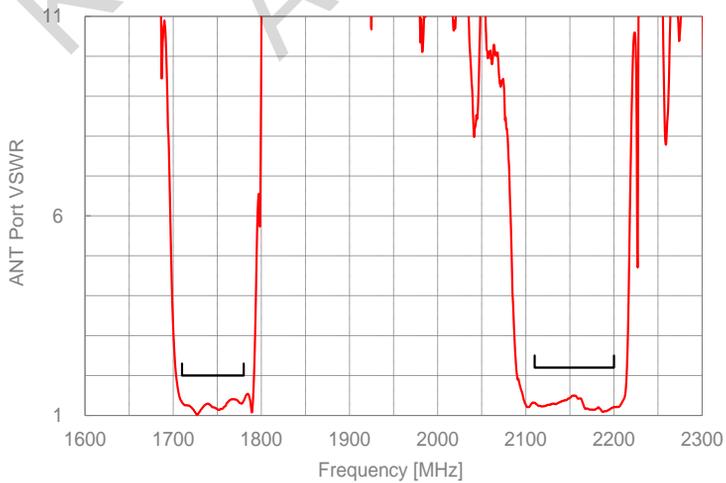
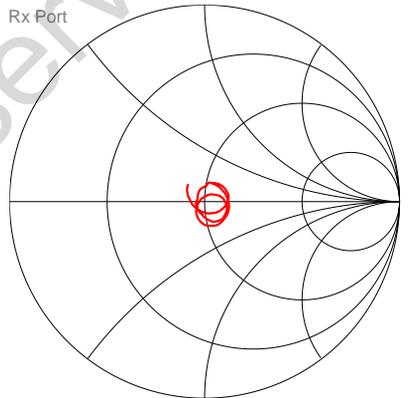
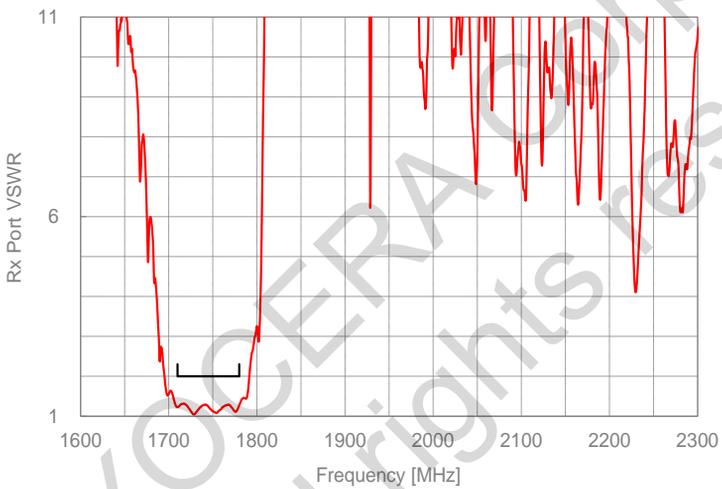
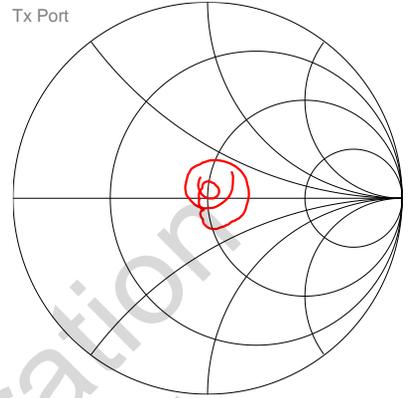


### Electrical Characteristics

[Tx to Rx]

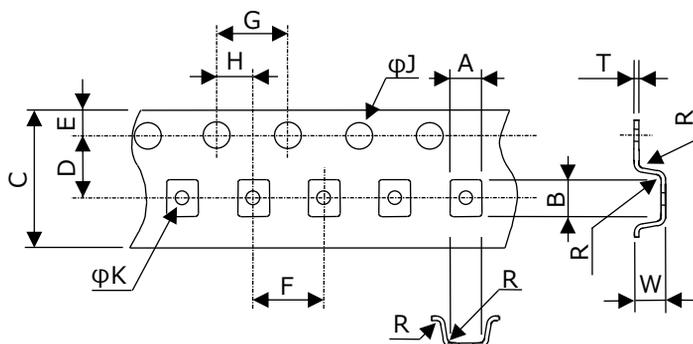


### Electrical Characteristics



### Tape & Reel Specification

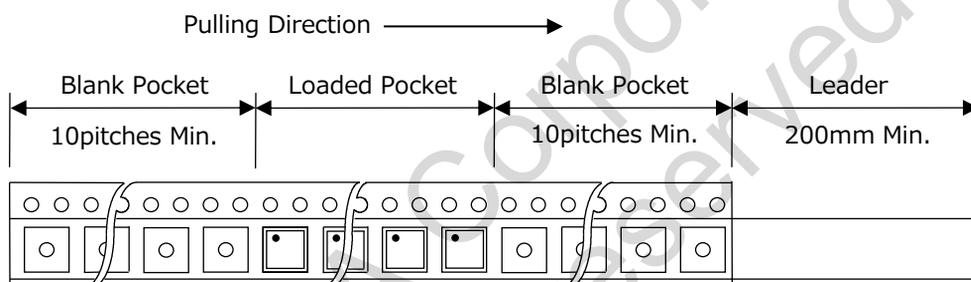
#### [Tape]



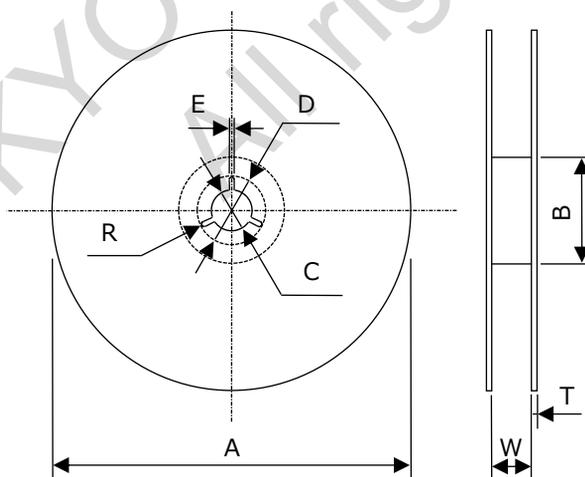
Unit : mm

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

## Notice

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