

Datasheet of SAW Duplexer 2520 Band3 for Base station

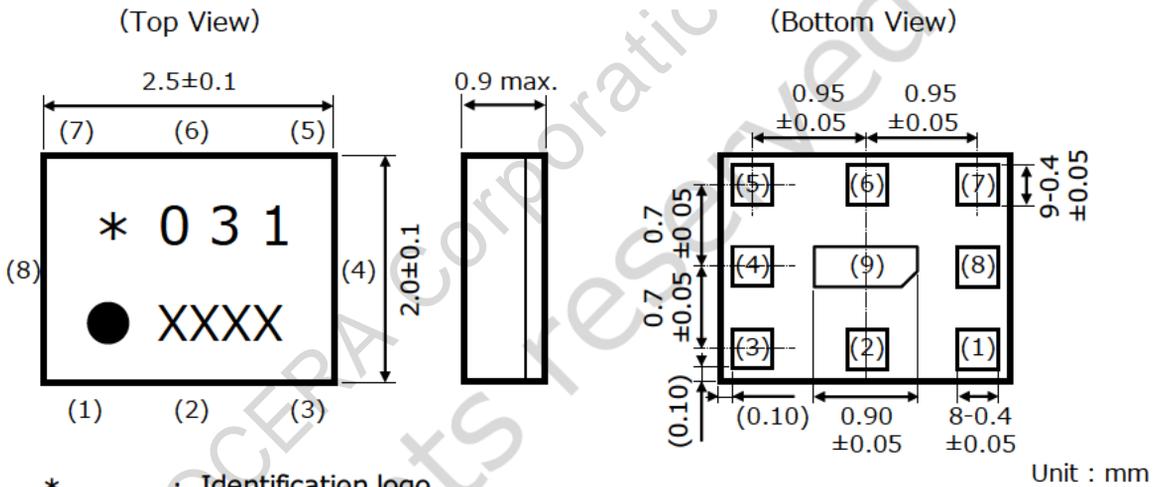
KYOCERA Part No. : SD25 1842R9UUA1

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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)	+30	dBm	LTE 5MHz (PAR=6.95dB) 10 years @95deg.C
Tx Port Nominal Impedance	50//10nH	ohm	Unbalance
Ant. Port Nominal Impedance	50//5.1nH	ohm	Unbalance
Rx Port Nominal Impedance	50+1.5nH	ohm	Unbalance

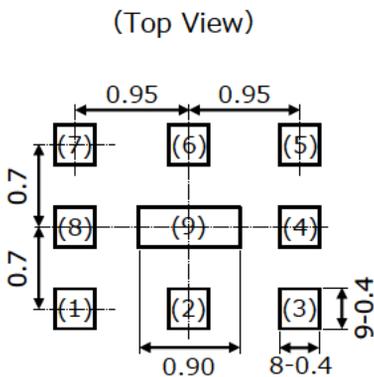
Dimensions



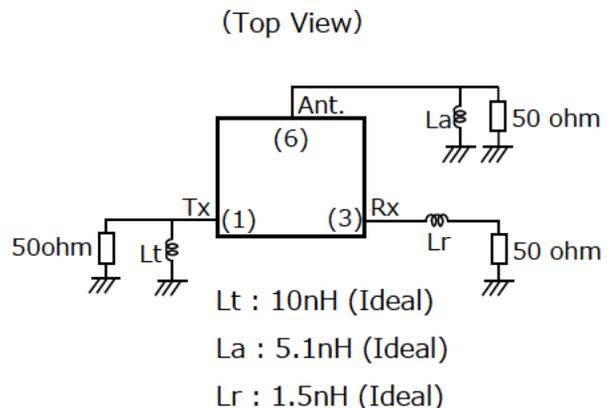
- * : Identification logo
- 031 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit

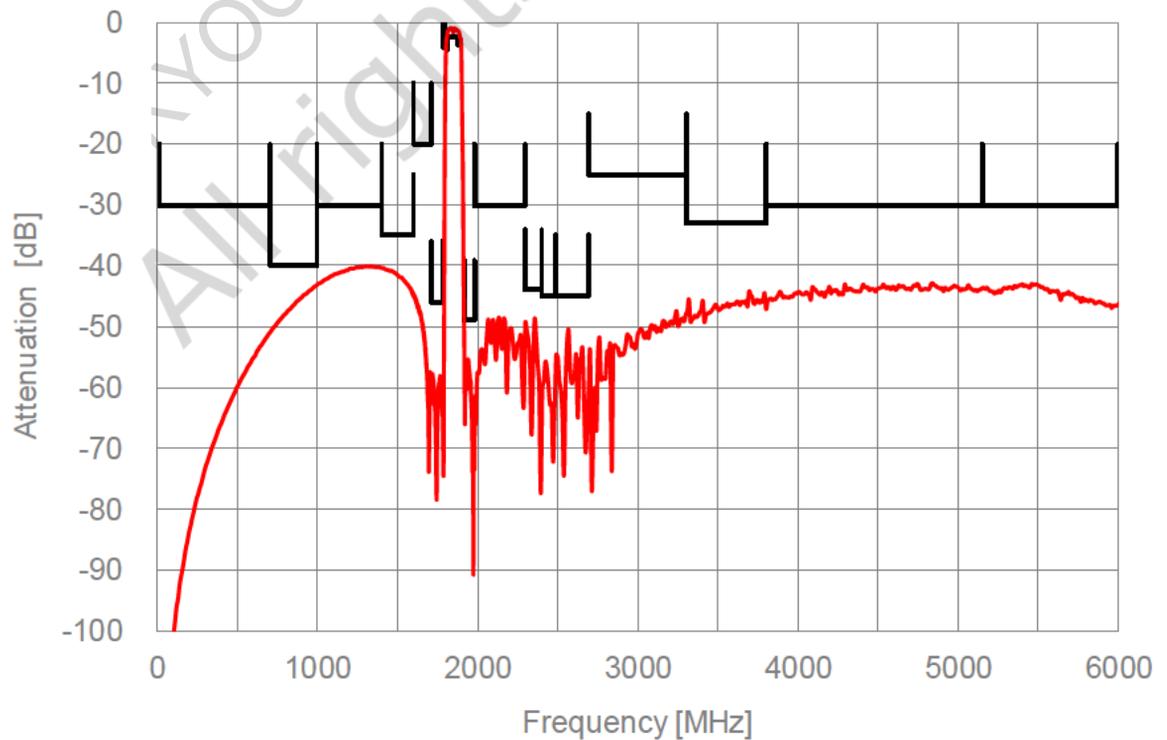
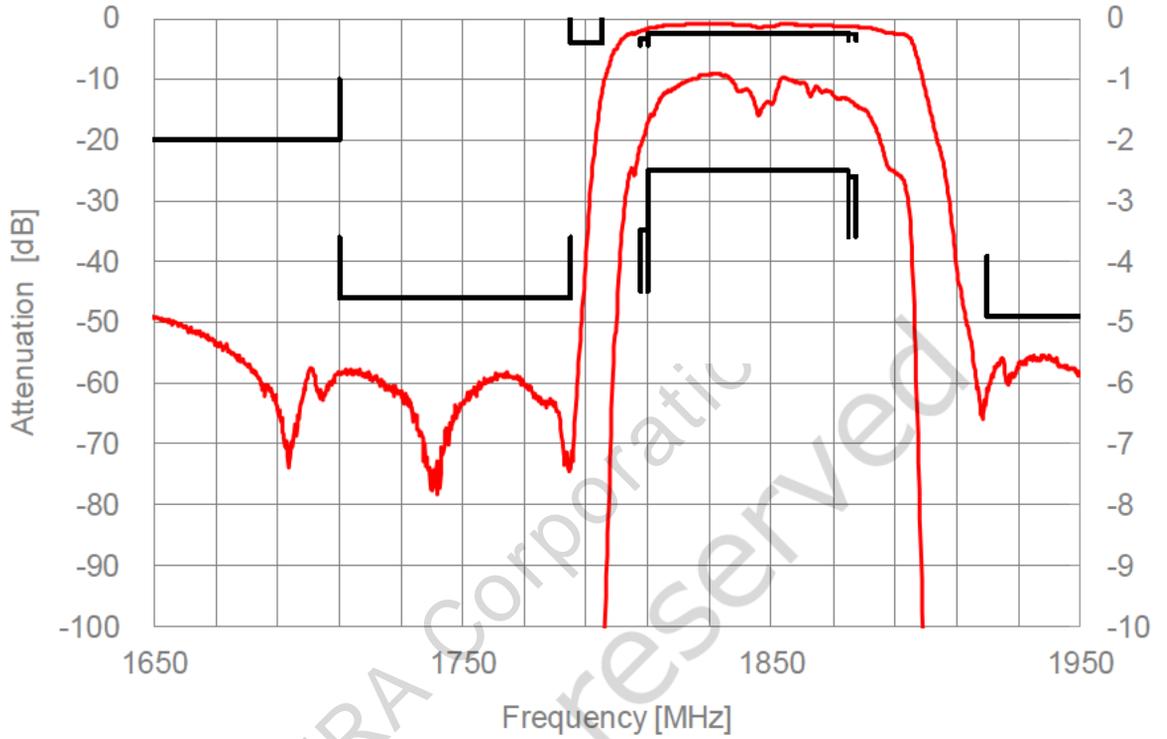


Electrical Characteristics

ITEMS		Frequency (MHz)	Characteristics			Unit	Note
			min.	typ.	max.		
Tx to Ant	Insertion Loss	1805 - 1810	-	2.1	3.5	dB	Average over any 5MHz
		1810 - 1875	-	1.5	2.5	dB	
		1875 - 1880	-	1.4	2.6	dB	
	Ripple (any5MHz)	1805 - 1880	-	0.9	2.2	dB	
	VSWR (Tx)	1805 - 1880	-	1.6	2.3	-	
	VSWR (Ant)	1805 - 1880	-	1.6	2.3	-	
	Absolute Attenuation	10 - 700	30	51	-	dB	
		700 - 1000	40	43	-	dB	
		1000 - 1400	30	40	-	dB	
		1400 - 1600	35	40	-	dB	
		1600 - 1710	20	45	-	dB	
		1710 - 1785	46	58	-	dB	
		1785 - 1795	4	12	-	dB	
		1920 - 1980	49	56	-	dB	
		1980 - 2300	30	49	-	dB	
		2300 - 2400	44	49	-	dB	
		2400 - 2484	45	55	-	dB	
		2484 - 2690	45	51	-	dB	
		2690 - 3300	25	47	-	dB	
3300 - 3800		33	44	-	dB		
3800 - 5150		30	43	-	dB		
5150 - 6000		30	43	-	dB		
Ant to Rx	Insertion Loss	1710 - 1715	-	1.3	2.2	dB	Average over any 5MHz
		1715 - 1780	-	1.4	2.6	dB	
		1780 - 1785	-	1.9	3.6	dB	
	Ripple (any5MHz)	1710 - 1785	-	0.8	2.0	dB	
	VSWR (Rx)	1710 - 1785	-	1.5	2.2	-	
	VSWR (Ant)	1710 - 1785	-	1.5	2.2	-	
	Absolute Attenuation	10 - 700	40	45	-	dB	
		700 - 1000	37	40	-	dB	
		1000 - 1400	25	38	-	dB	
		1400 - 600	33	38	-	dB	
		1600 - 1690	15	25	-	dB	
		1805 - 1880	45	55	-	dB	
		1880 - 1920	35	49	-	dB	
		1920 - 1980	30	45	-	dB	
1980 - 2110		35	39	-	dB		
211 - 2170		31	37	-	dB		
2170 - 2690		26	29	-	dB		
2690 - 3300	15	25	-	dB			
3300 - 3800	15	22	-	dB			
3800 - 5150	15	22	-	dB			
5150 - 6000	7	13	-	dB			
Tx to Rx	Isolaion	1710 - 1785	55	59	-	dB	Average over any 5MHz
		1805 - 1880	52	59	-	dB	Average over any 5MHz

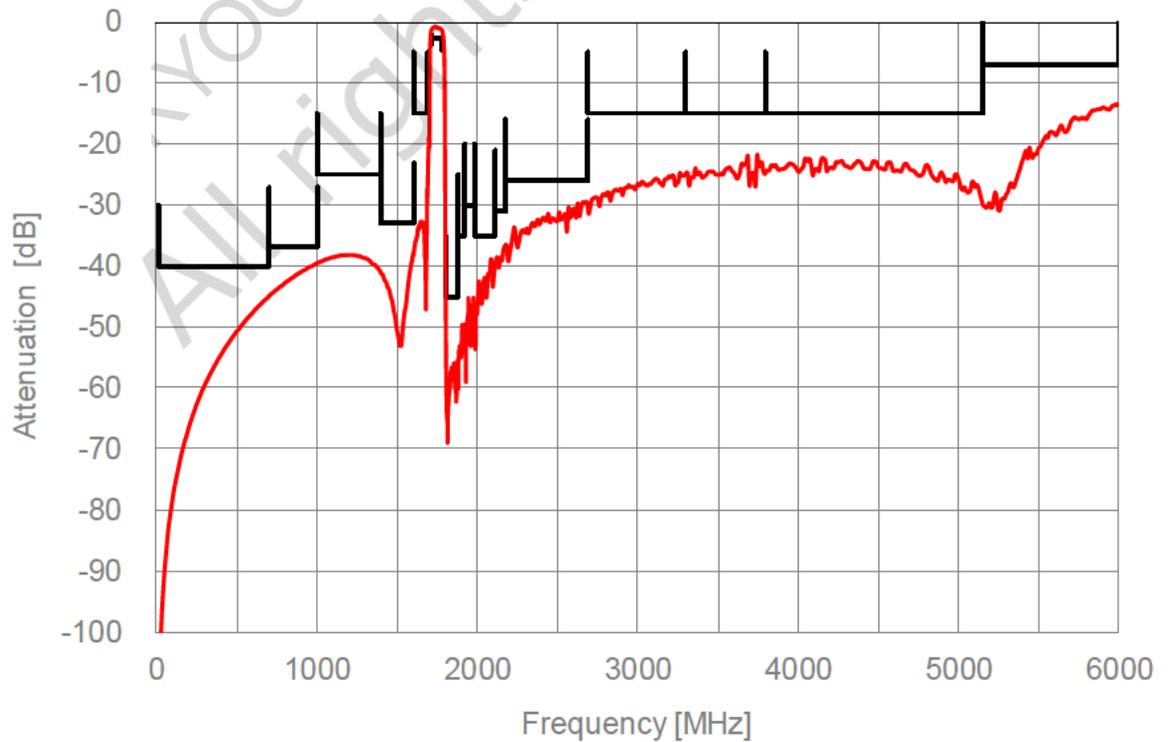
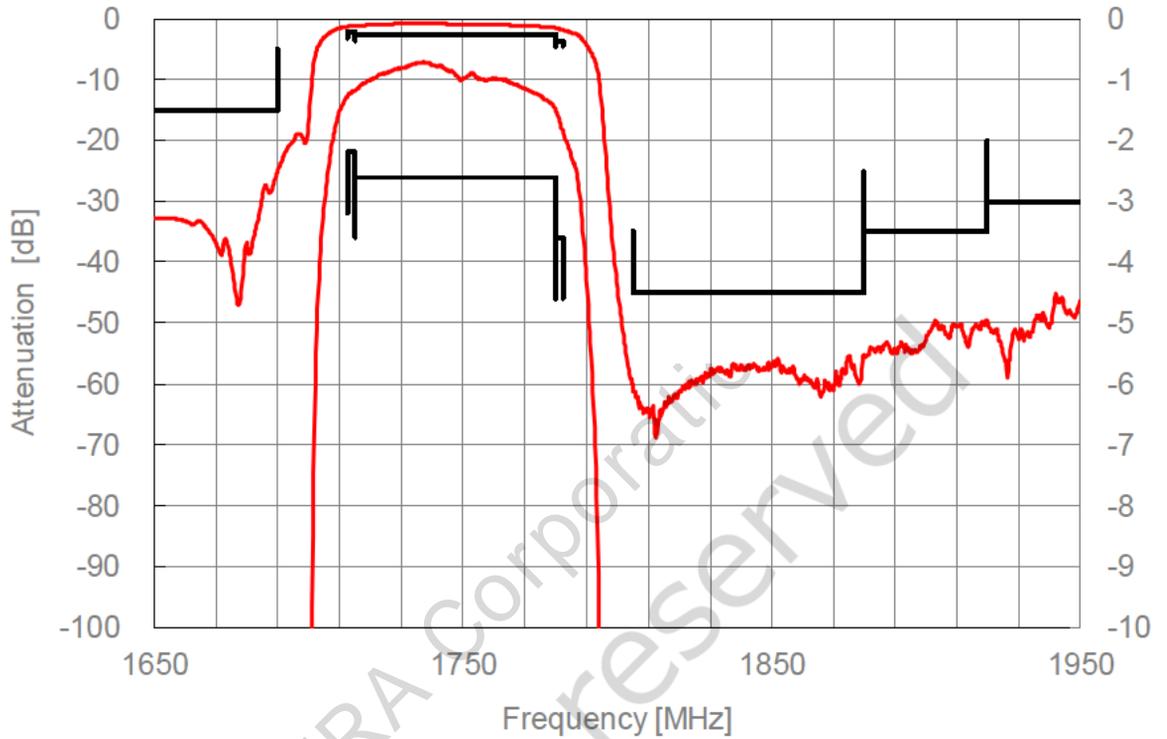
Electrical Characteristics

[Tx to Ant]



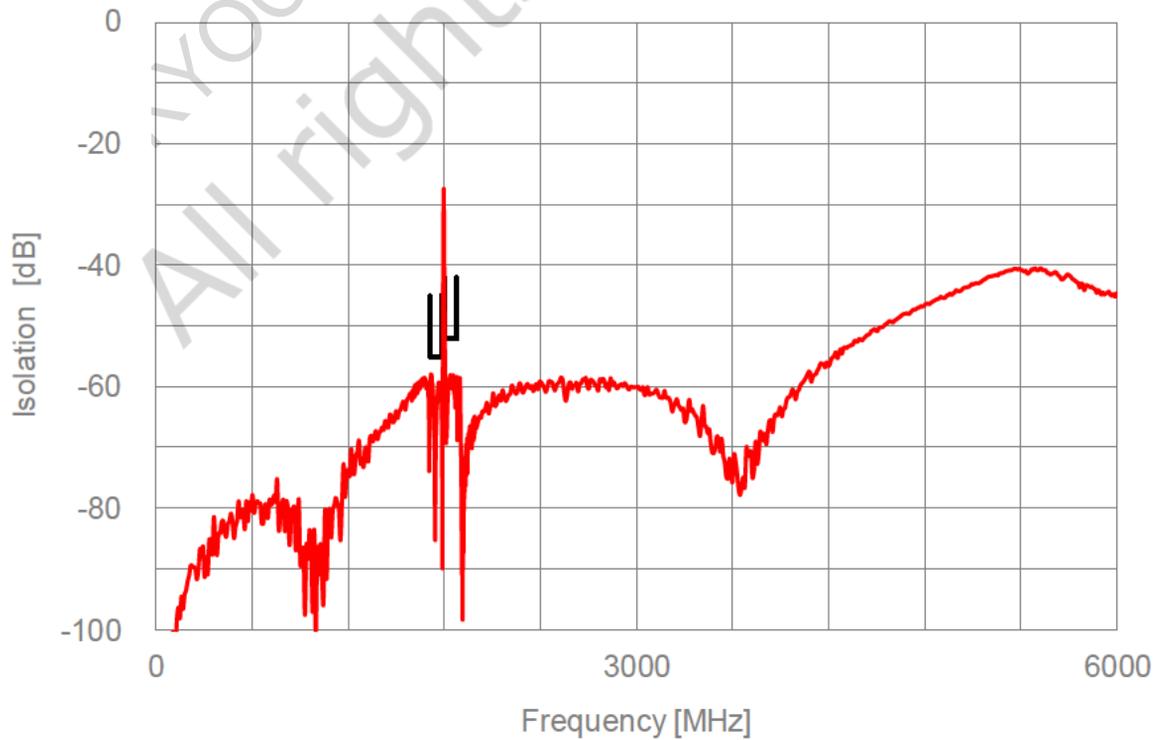
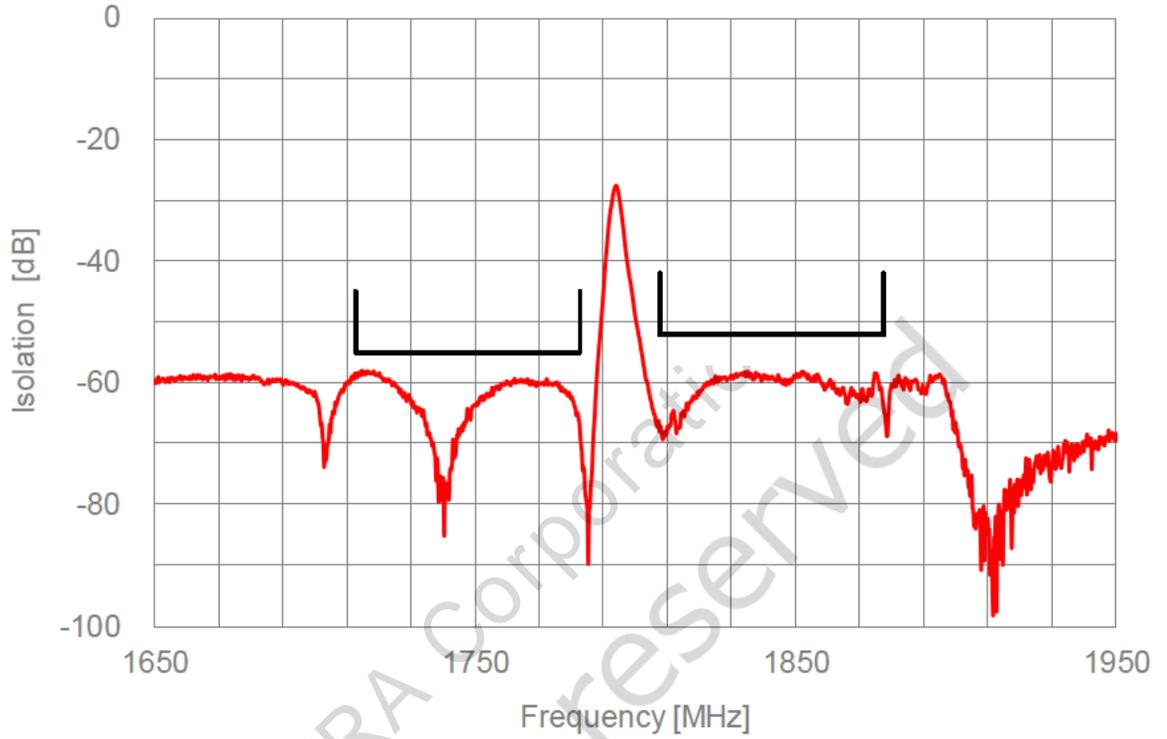
Electrical Characteristics

[Ant to Rx]

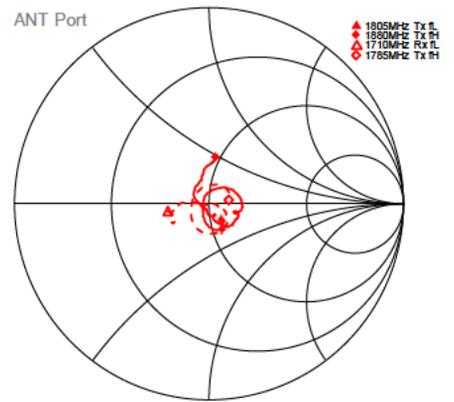
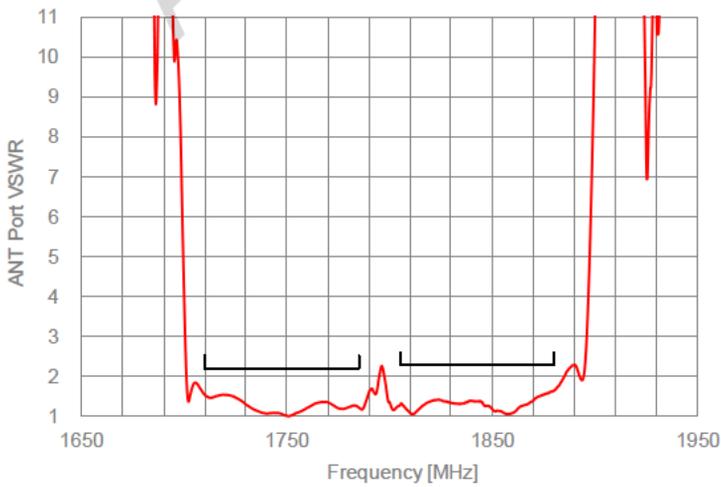
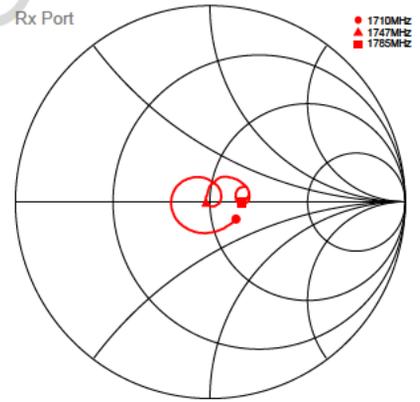
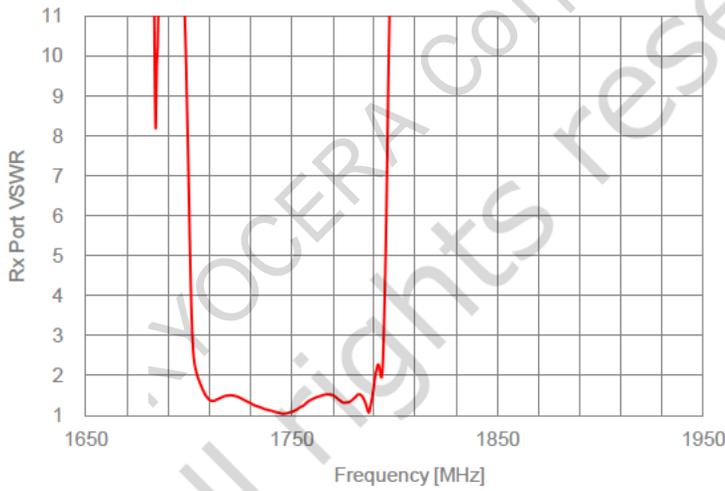
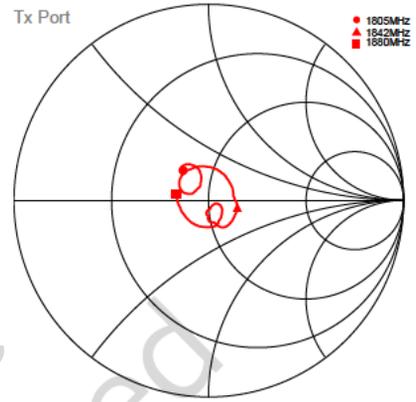
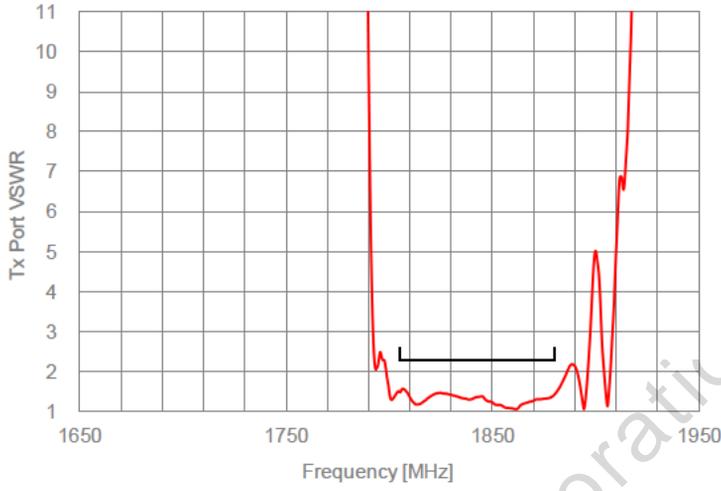


Electrical Characteristics

[Tx to Rx]

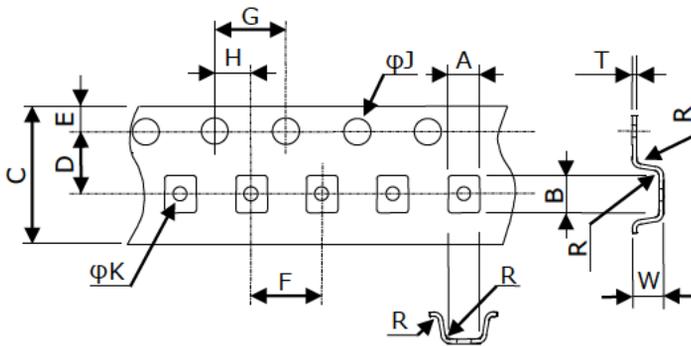


Electrical Characteristics



Tape & Reel Specification

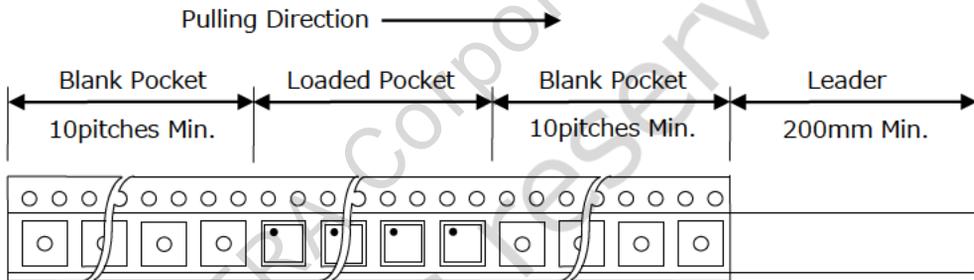
[Tape]



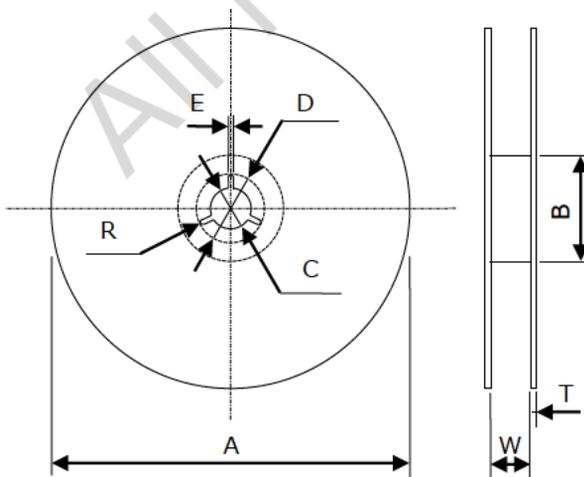
Unit : mm

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

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