

Datasheet of SAW Duplexer 1814 Band8 Unbalanced

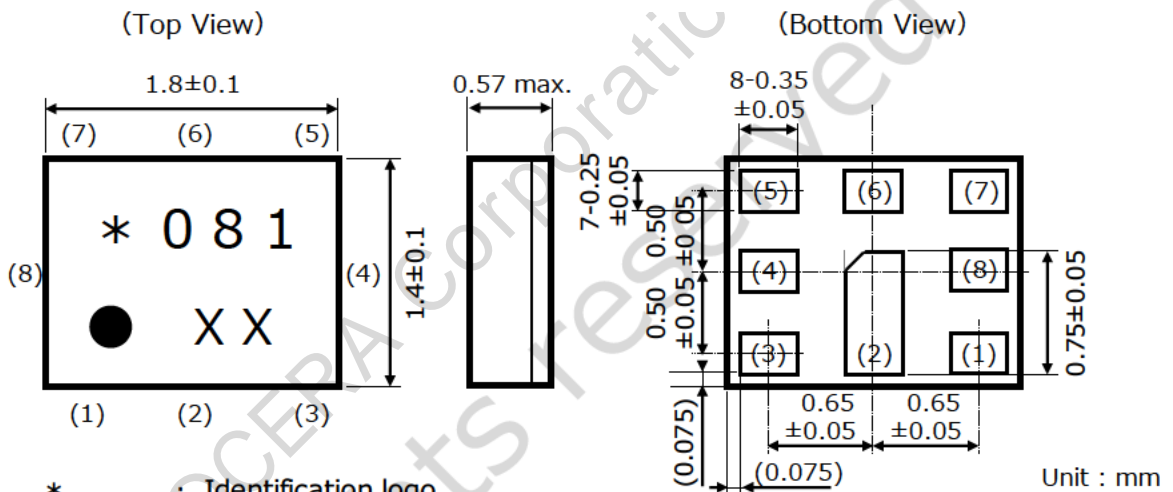
KYOCERA Part No. : SD18 0897R8UUQ1

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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 (Tx port)	+29	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50//22nH	ohm	Unbalance
Ant. Port Nominal Impedance	50//8.2nH	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

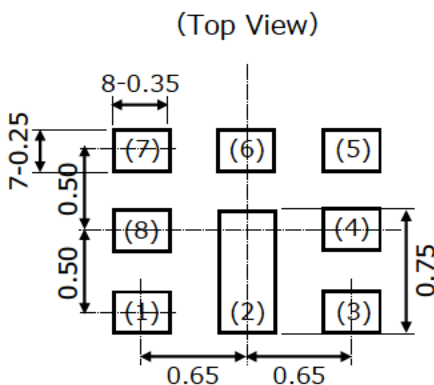
Dimensions



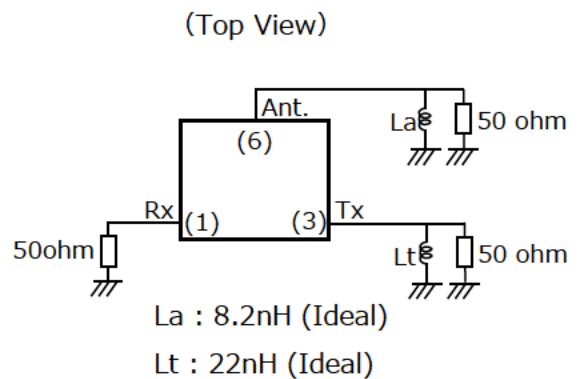
- * : Identification logo
- 081 : Identification no.
- : Index mark of pin 1
- XX : Date code

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

Recommendable Land Pattern



Measurement Circuit



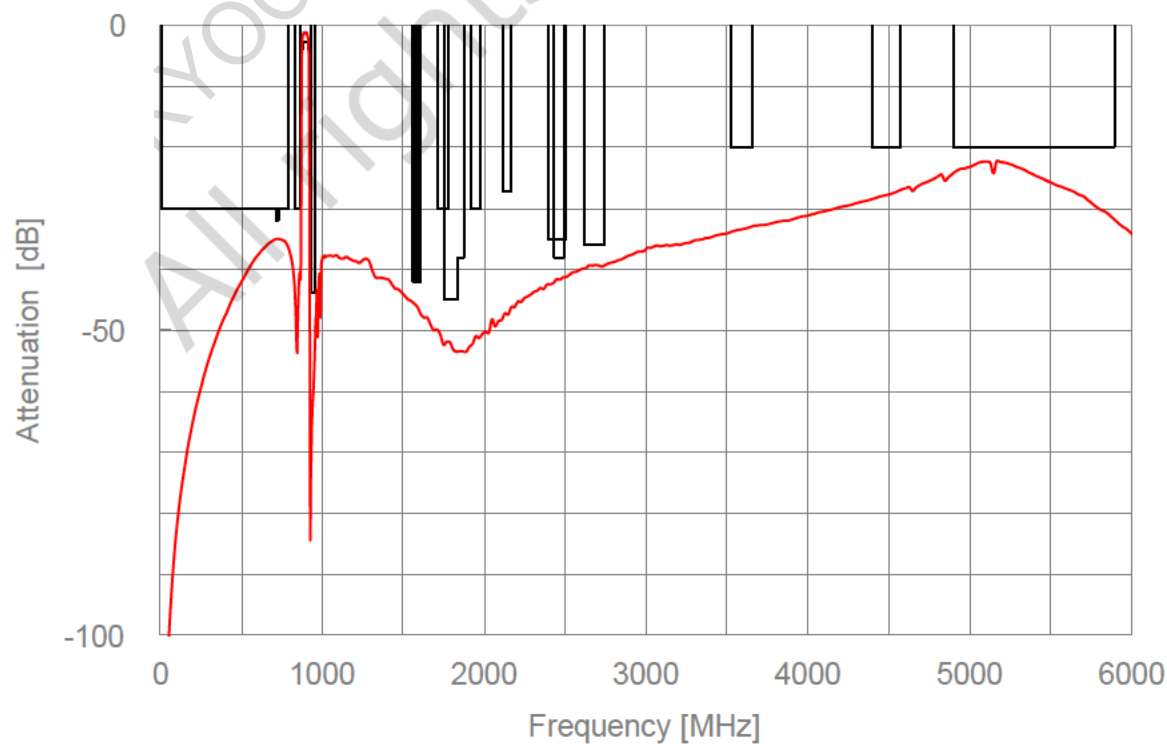
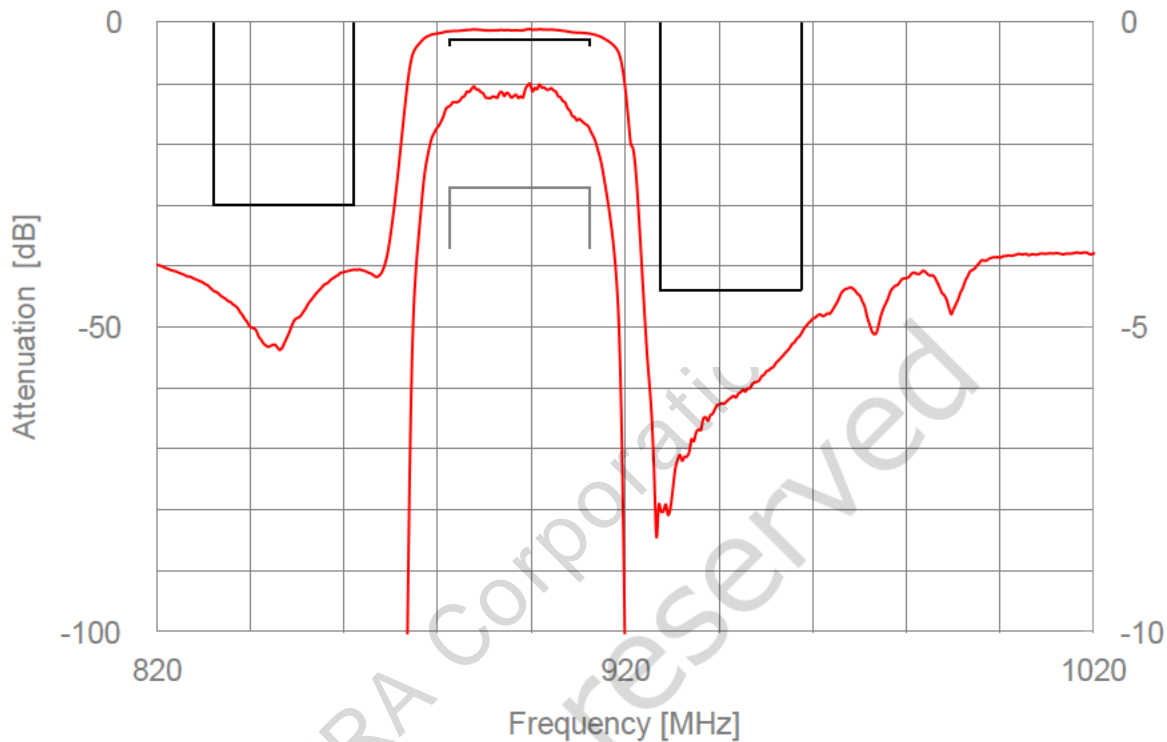
Electrical Characteristics

Items		Frequency (MHz)		Specification			Unit	Note	
				min.	typ.	max.			
Tx to Ant	Nominal Center Frequency	-		897.5			MHz		
	Insertion Loss	882.4	to 912.6	-	1.8	2.7	dBint		
	Ripple (any 5MHz)	880.24	to 914.76	-	0.9	2.0	dB		
	VSWR	Tx	880.24	to 914.76	-	1.6	2.2	-	
		Ant.	880.24	to 914.76	-	1.7	2.2	-	
	Absolute Attenuation	10	to 716	30	35	-	dB		
		716	to 728	32	35	-	dB		
		728	to 793	30	35	-	dB		
		832	to 862	30	41	-	dB		
		927.4	to 957.6	44	51	-	dBint		
		1559	to 1563	42	46	-	dB		
		1565.42	to 1573.374	42	46	-	dB		
		1573.374	to 1577.466	42	46	-	dB		
		1577.466	to 1585.42	42	46	-	dB		
		1597.5515	to 1605.886	43	47	-	dB		
		1710	to 1785	30	9	-	dB		
		1760	to 1840	45	52	-	dB		
		1840	to 1880	38	53	-	dB		
		1920	to 1980	30	51	-	dB		
		2110	to 2170	27	47	-	dB		
2400		to 2500	35	41	-	dB			
2434		to 2494	38	41	-	dB			
2620		to 2745	36	39	-	dB			
3520	to 3660	20	33	-	dB				
4400	to 4575	20	27	-	dB				
4900	to 5900	20	22	-	dB				
Ant to Rx	Nominal Center Frequency	-		942.5			MHz		
	Insertion Loss	925	to 960	-	2.2	3.5	dB		
	Ripple (any 5MHz)	925	to 960	-	0.5	2.0	dB		
	VSWR	Rx	925	to 960	-	1.8	2.2	-	
		Ant.	925	to 960	-	1.6	2.2	-	
	Absolute Attenuation	10	to 880	45	60	-	dB		
		45		50	104	-	dB		
		835	to 870	40	67	-	dB		
		882.4	to 912.6	45	63	-	dBint		
		902.5	to 910	30	63	-	dB		
		980	to 1045	13	18	-	dB		
		1045	to 6000	40	44	-	dB		
		1427	to 1448	40	71	-	dB		
		1710	to 1785	40	70	-	dB		
		1805	to 1920	40	69	-	dB		
		1920	to 1980	40	67	-	dB		
		1980	to 6000	15	44	-	dB		
		2400	to 2500	40	65	-	dB		
		2500	to 2570	40	65	-	dB		
		2685	to 2790	40	64	-	dB		
2775		to 2880	40	64	-	dB			
2880		to 3700	35	66	-	dB			
3700		to 3840	40	74	-	dB			
4625	to 4800	40	49	-	dB				
4900	to 5950	40	44	-	dB				
Tx to Rx	Isolation	882.4	to 912.6	55	62	-	dBint		
		927.4	to 957.6	50	54	-	dBint		

dBint : Integrated calculation, LTE Modulation (4.5MHz)

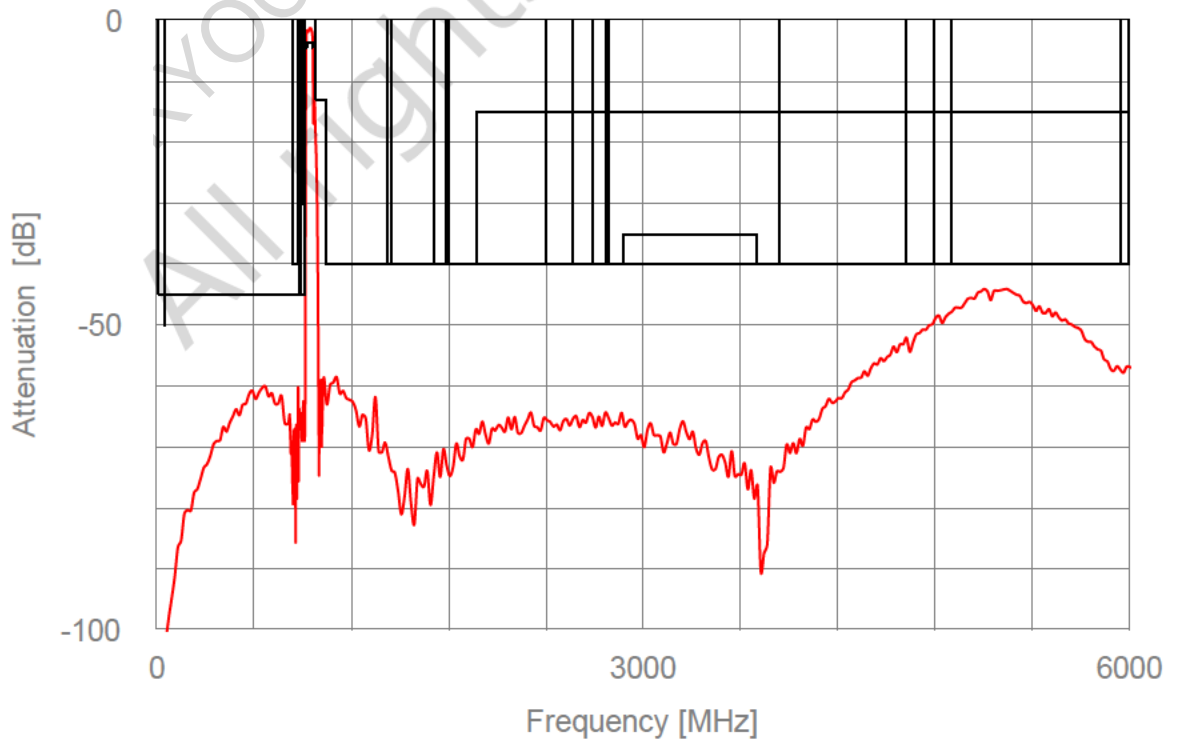
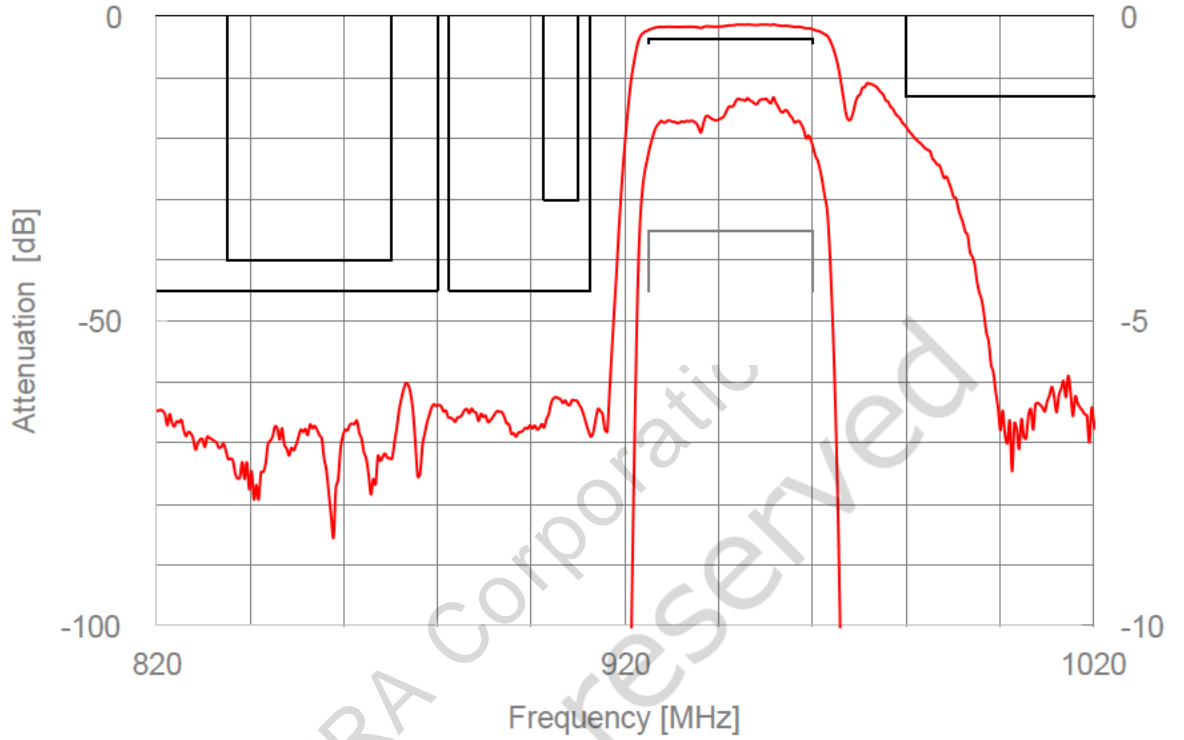
Electrical Characteristics

[Tx to Ant]



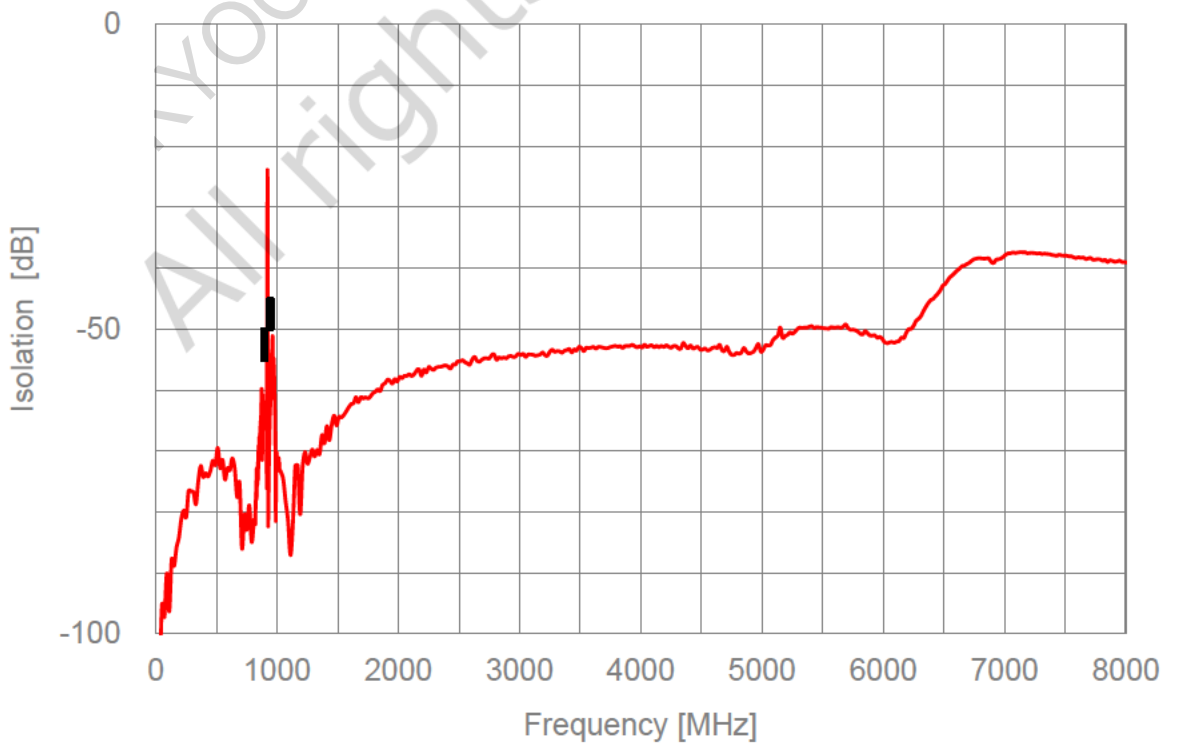
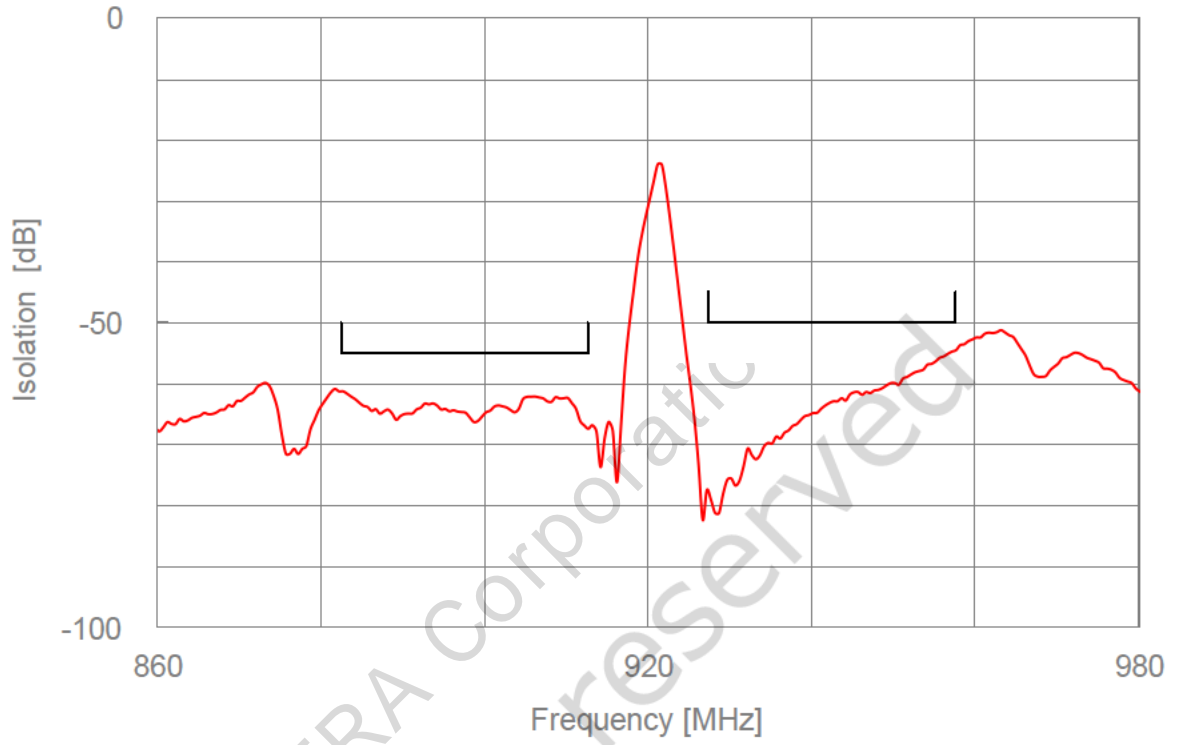
Electrical Characteristics

[Ant to Rx]

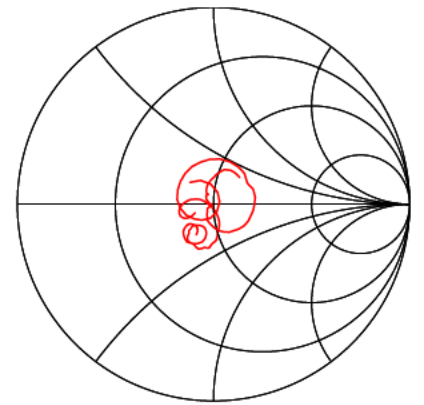
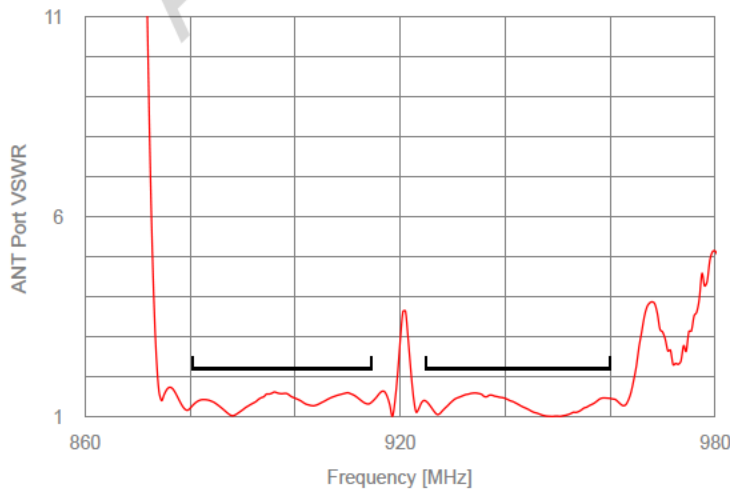
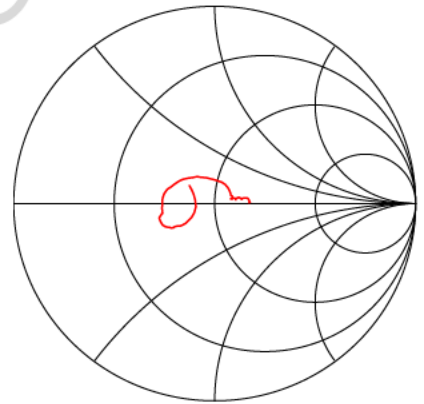
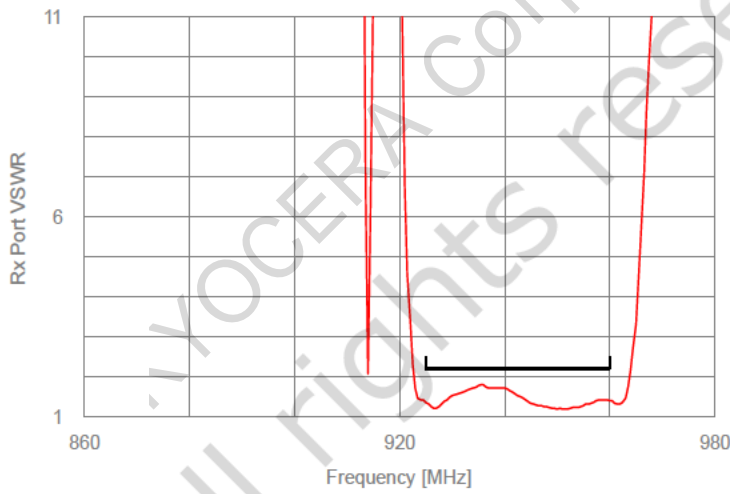
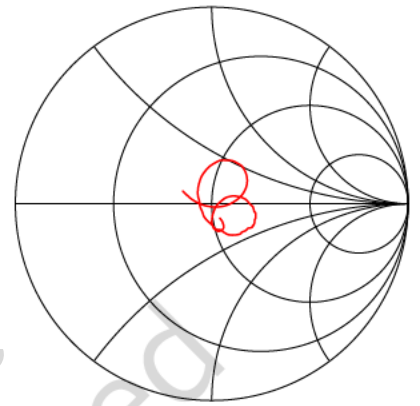
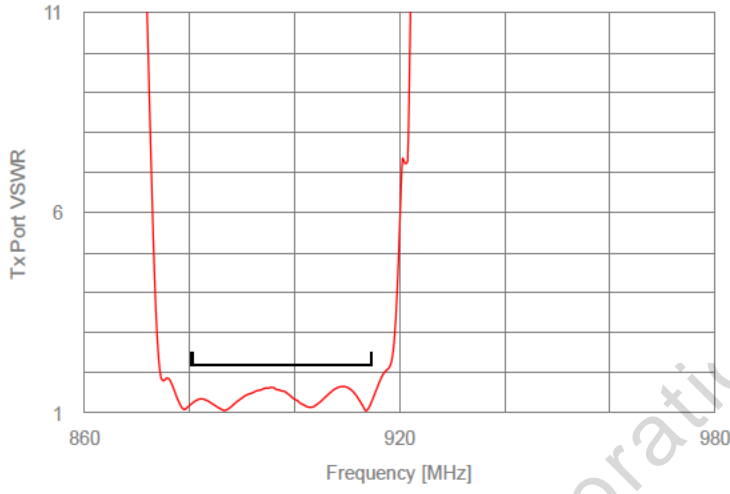


Electrical Characteristics

[Tx to Rx]

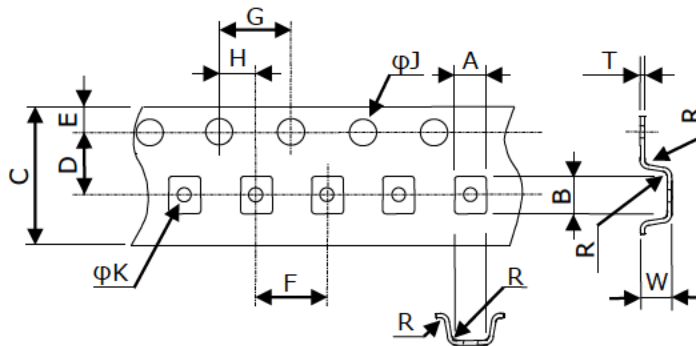


Electrical Characteristics



Tape & Reel Specification

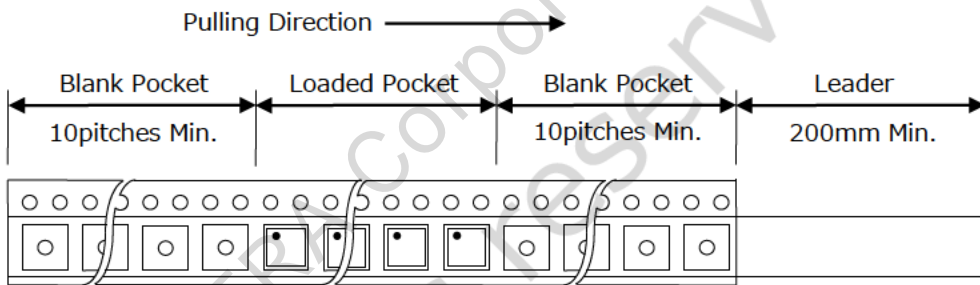
[Tape]



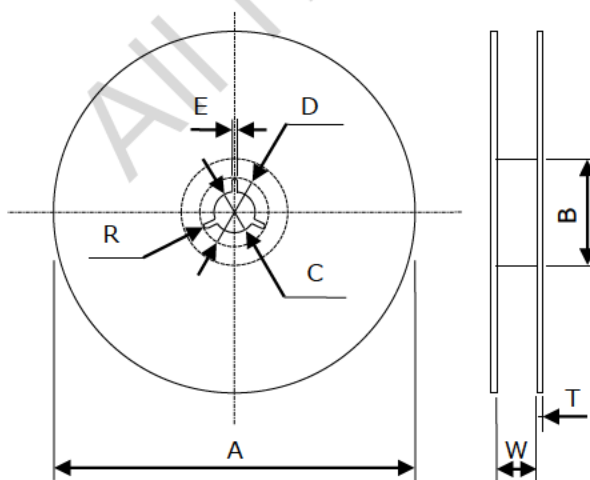
Unit : mm

Part	Dimension
A	1.7±0.1
B	2.05±0.10
C	8.0±0.2
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	0.80±0.05
R	0.2 Max
W	0.7±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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