

Datasheet of SAW Duplexer 1814 Band2 Unbalanced

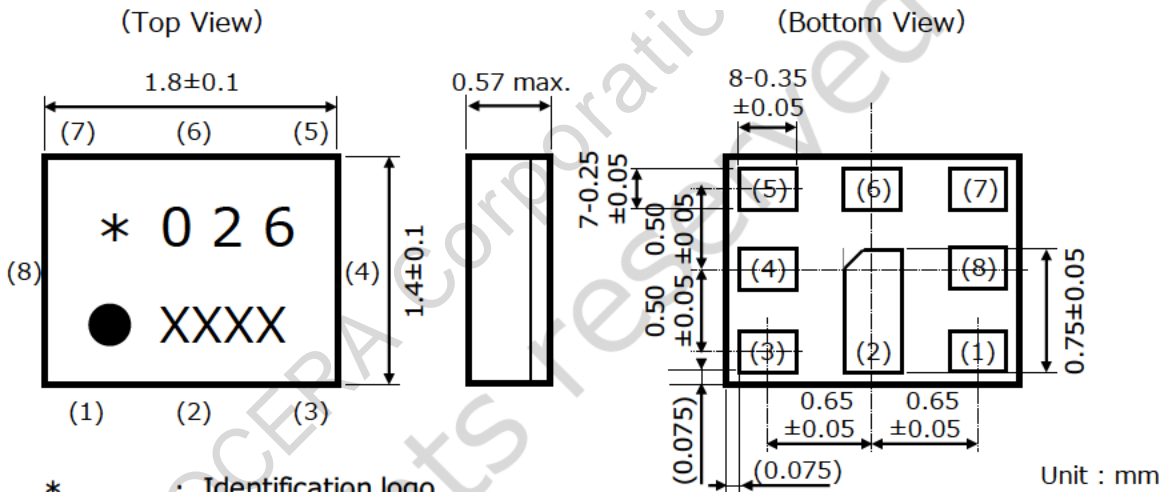
KYOCERA Part No. : SD18 1880R8UUC1

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Rating

Items	Rating	Unit	Note
Operating Temperature Range	-30 to +85	deg.C	
Storage Temperature Range	-40 to +85	deg.C	
Max Input Power (Tx port)	+30	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50	ohm	Unbalance
Ant. Port Nominal Impedance	50//3.6nH	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

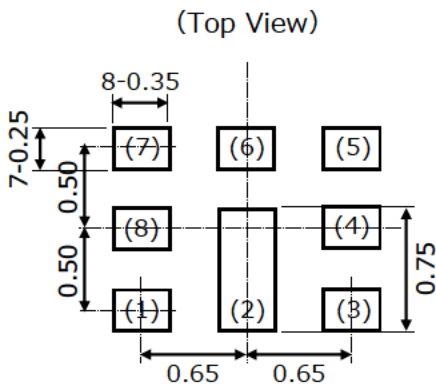
Dimensions



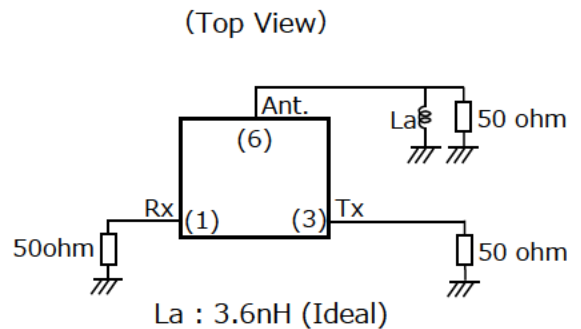
- * : Identification logo
- 026 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit



Electrical Characteristics

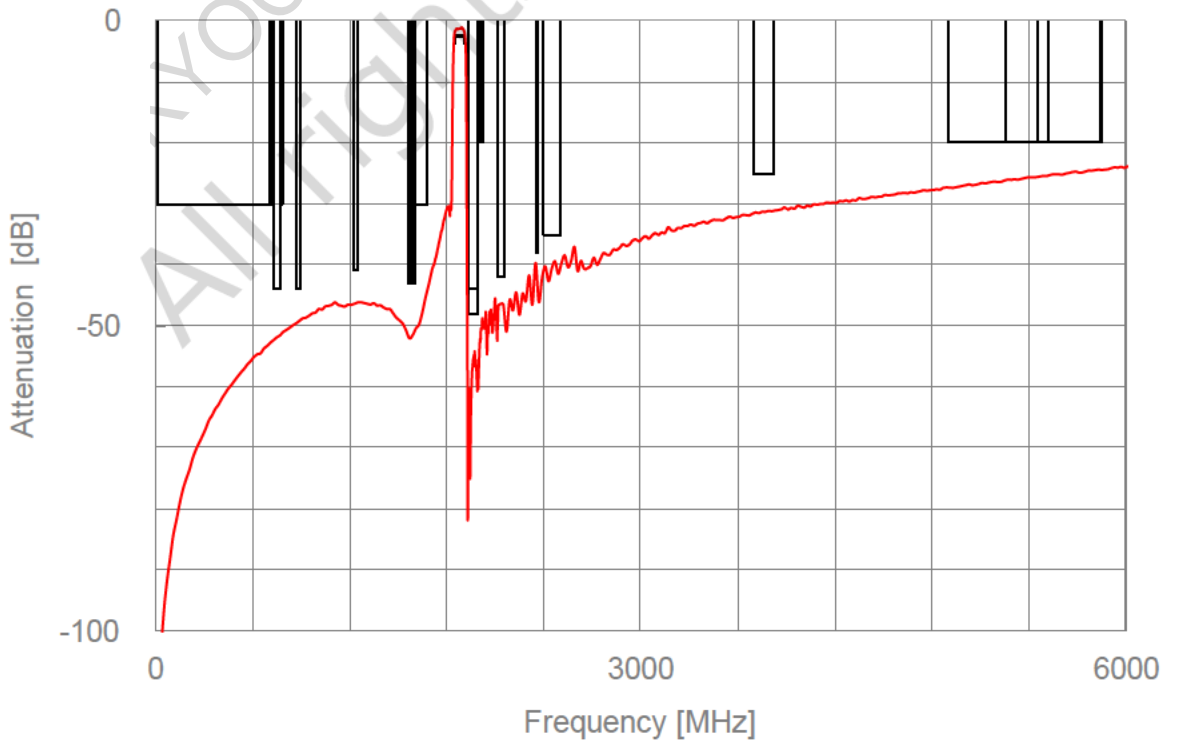
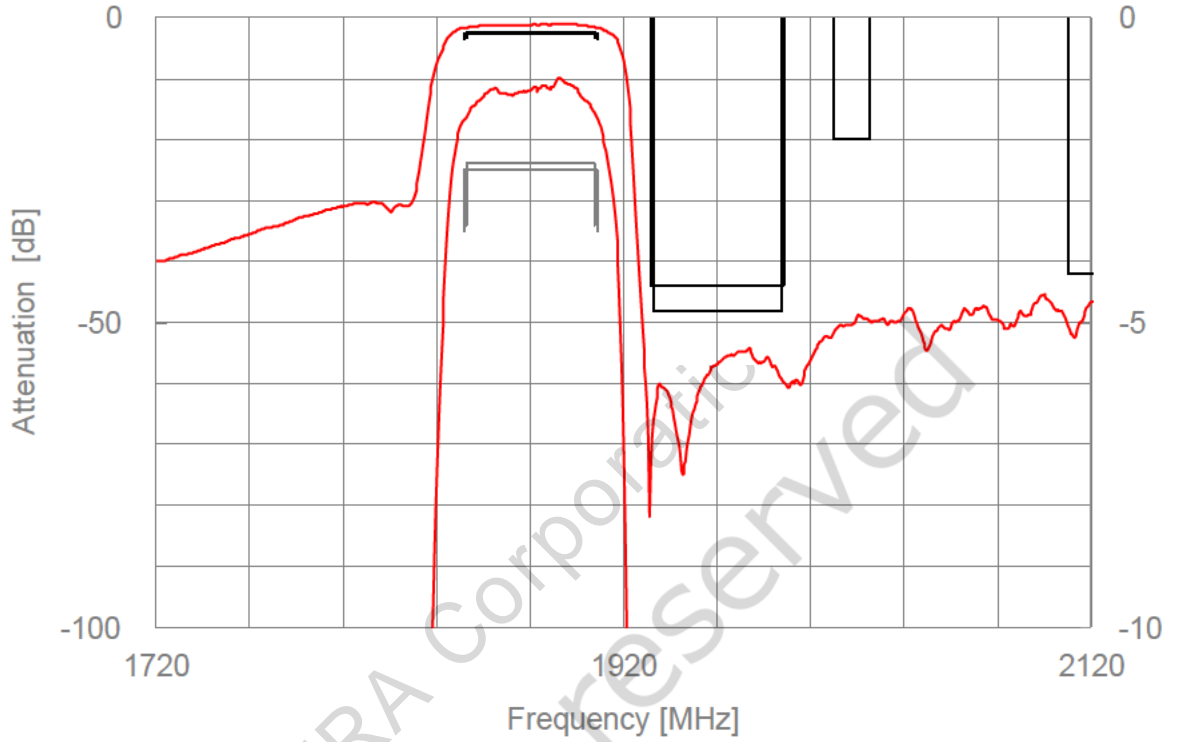
Items		Frequency (MHz)		Characteristics			Unit	Note	
				min.	typ.	max.			
Tx to Ant	Nominal Center Frequency	-		1880			MHz		
	Insertion Loss	1852.4	to 1907.6	-	1.6	2.4	dBint*1		
		1851.25	to 1908.75	-	1.7	2.5	dBint*2		
	Ripple (any 5MHz)	1850.48	to 1909.52	-	0.4	1.8	dB		
	VSWR	Tx	1850.48	to 1909.52	-	1.5	2.1	-	
		Ant	1850.48	to 1909.52	-	1.5	2.1	-	
	Absolute Attenuation	10	to 728	30	52	-	dB		
		704	to 716	30	53	-	dB		
		728	to 764	44	52	-	dB		
		777	to 787	30	51	-	dB		
		869	to 894	44	49	-	dB		
		1226	to 1250	41	46	-	dB		
		1559	to 1563	43	51	-	dB		
		1565.42	to 1573.374	43	51	-	dB		
		1573.374	to 1577.466	43	52	-	dB		
		1577.466	to 1585.42	43	52	-	dB		
		1597.5515	to 1605.886	43	51	-	dB		
		1605.866	to 1680	30	44	-	dB		
		1932.4	to 1987.6	48	54	-	dBint*1		
		1931.25	to 1988.75	44	5	-	dBint*2		
2010		to 2025	2	49	-	dB	+15 to +85deg.C		
2110		to 2155	42	46	-	dB			
2350		to 2360	38	40	-	dB			
2400	to 2500	35	39	-	dB				
3700	to 3820	25	31	-	dB				
4900	to 5850	20	24	-	dB				
5254	to 5 55	20	26	-	dB				
5520	to 5845	20	24	-	dB				
5540	to 5950	20	24	-	dB				
Ant to Rx	Nominal Center Frequency	-		1960			MHz		
	Insertion Loss	1932.4	to 1987.6	-	2.3	3.5	dBint*1		
		1931.25	to 1988.75	-	2.4	3.9	dBint*2		
	Ripple (any 5MHz)	1930.48	to 1989.52	-	0.5	2.5	dB		
	VSWR	Rx	1930.48	to 1989.52	-	1.5	2.1	-	
		Ant	930.48	to 1989.52	-	1.4	2.1	-	
	Absolute Attenuation	0.2	to 1850	43	47	-	dB		
		80		50	98	-	dB		
		699	to 716	40	60	-	dB		
		777	to 787	40	58	-	dB		
		824	to 849	40	57	-	dB		
		1770	to 1830	40	49	-	dB		
		1852.4	to 1907.6	48	56	-	dBint*1		
		1851.25	to 1908.75	47	56	-	dBint*2		
		1910	to 1915	15	42	-	dB		
		2005	to 2050	2	10	-	dB		
		2050	to 2075	25	31	-	dB		
2075		to 6000	36	44	-	dB			
2305		to 2315	40	45	-	dB			
2400		to 2500	40	46	-	dB			
3780		to 3900	40	59	-	dB			
3860	to 3980	40	60	-	dB				
4900	to 5950	40	68	-	dB				
5610	to 5845	48	69	-	dB				
5630	to 5810	40	69	-	dB				
5790	to 5970	40	68	-	dB				
Tx to Rx	Isolation	1574	to 1577	40	69	-	dB		
		1852.4	to 1907.6	53	57	-	dBint*1		
		1851.25	to 1908.75	52	57	-	dBint*2		
		1932.4	to 1987.6	51	56	-	dBint*1		
		1931.25	to 1988.75	48	56	-	dBint*2		
		3700	to 3820	20	55	-	dB		
5550	to 5850	20	49	-	dB				

dBint*1 : Integrated calculation, WCDMA Modulation (3.84MHz)

dBint*2 : Integrated calculation, NCDMA Modulation (1.23MHz)

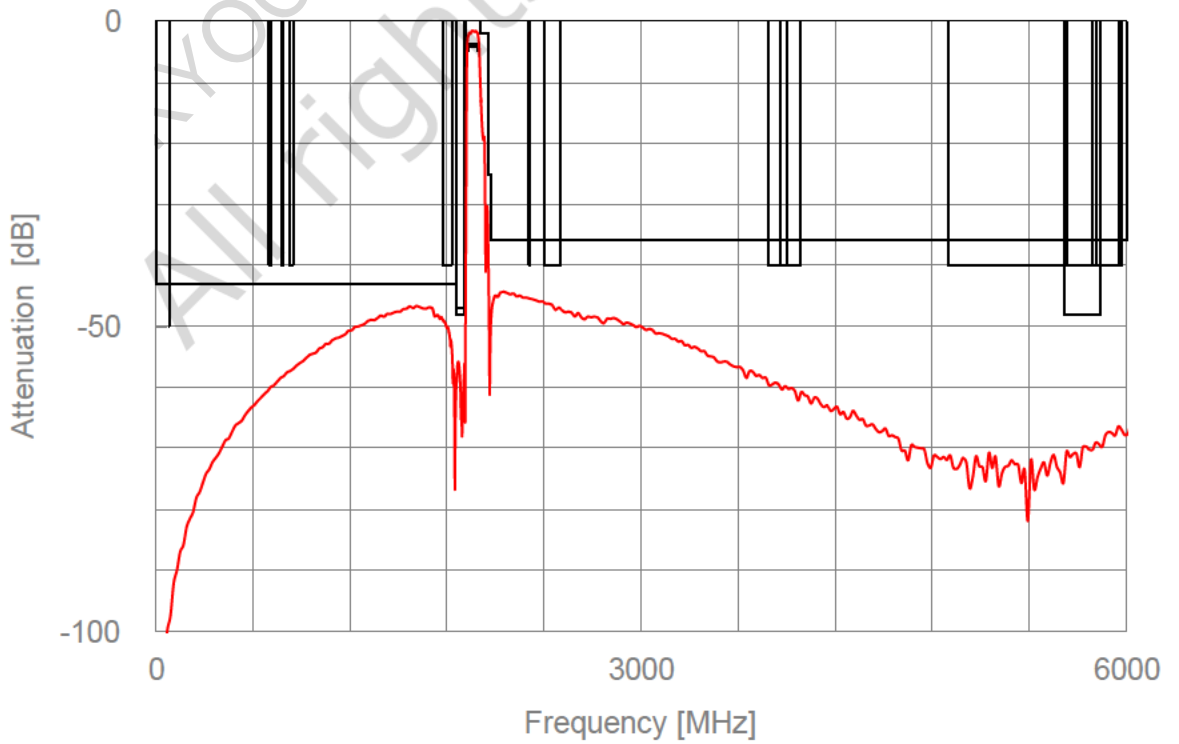
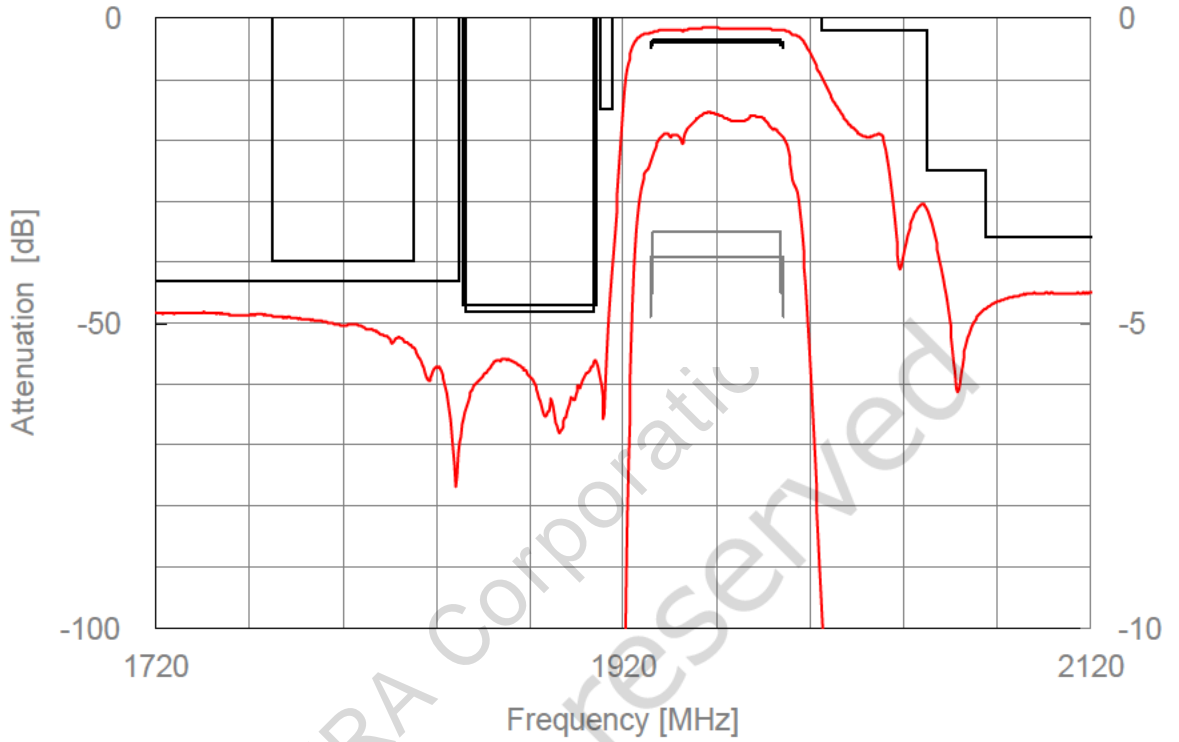
Electrical Characteristics

[Tx to Ant]



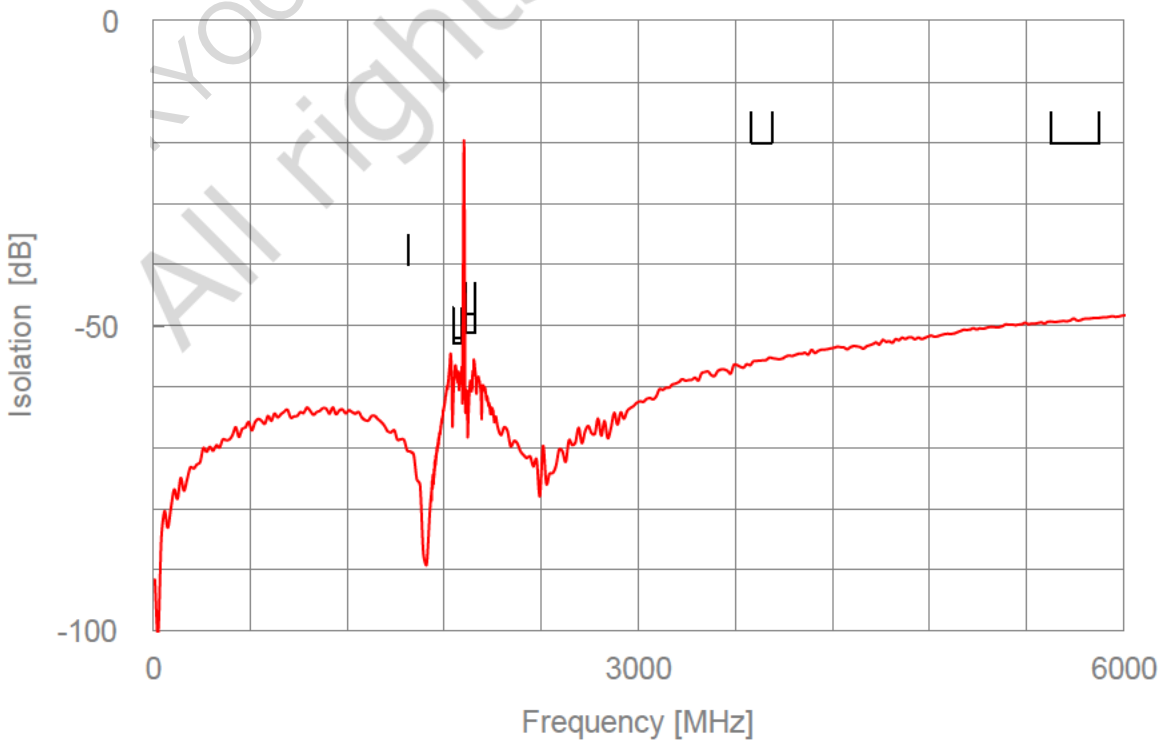
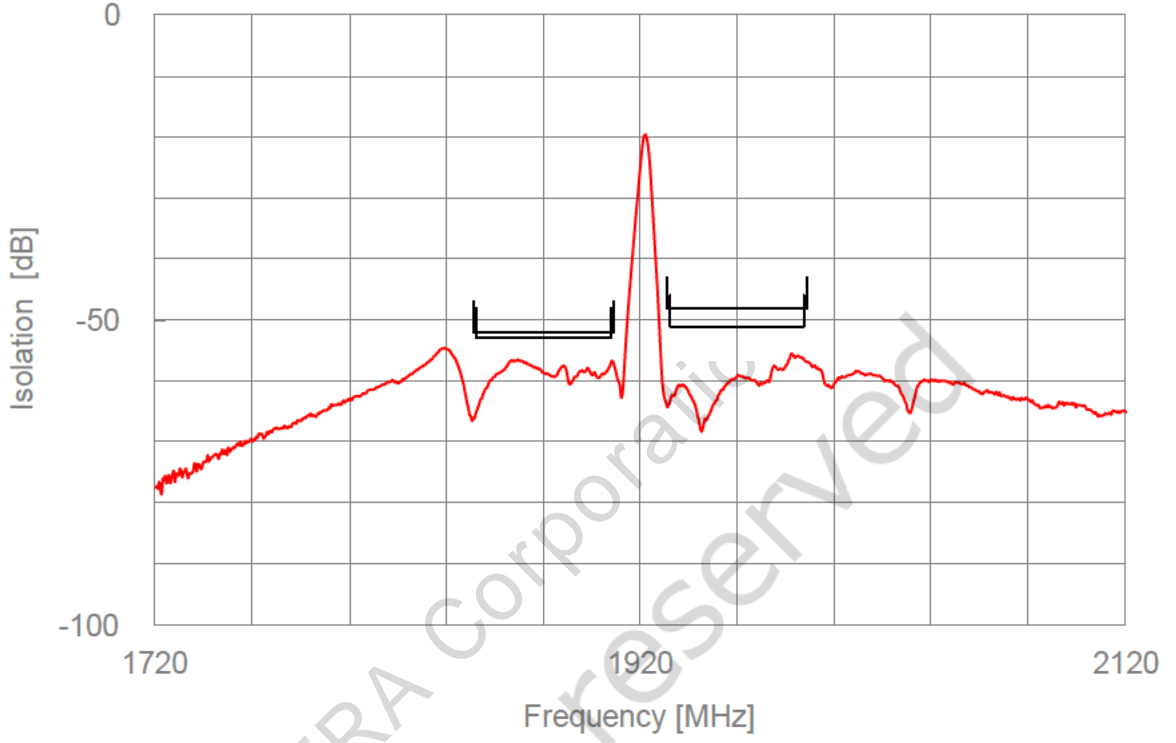
Electrical Characteristics

[Ant to Rx]

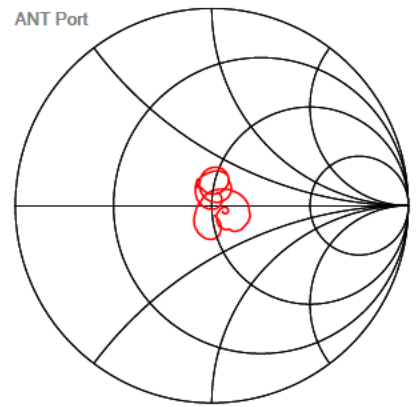
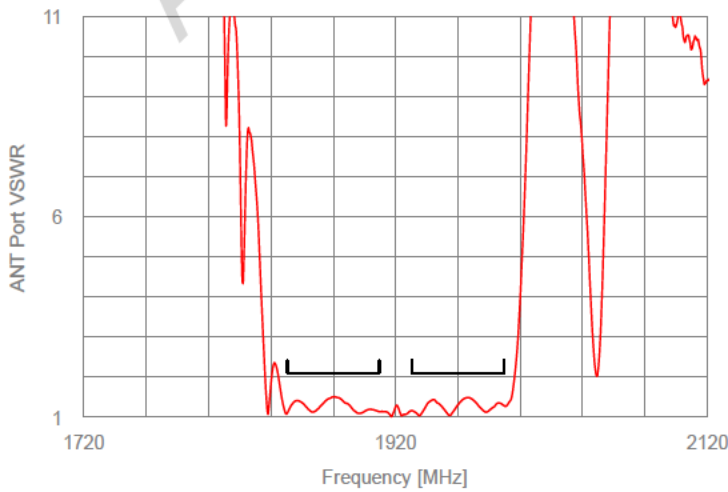
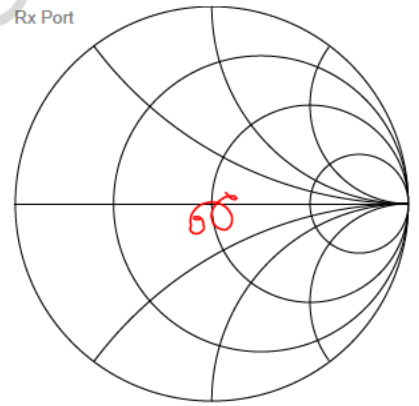
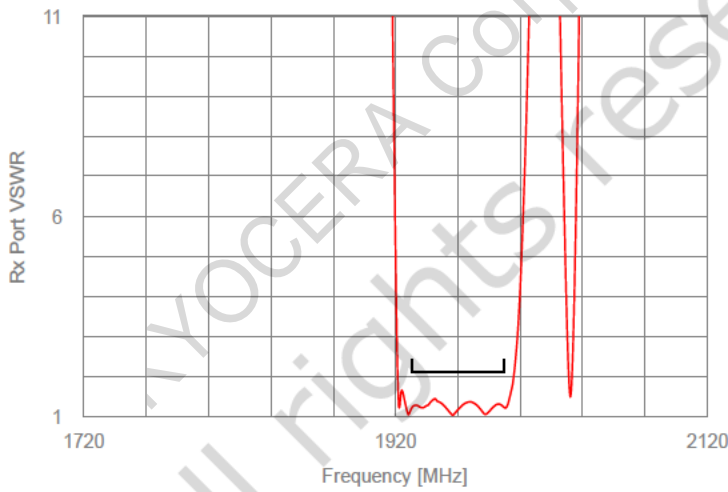
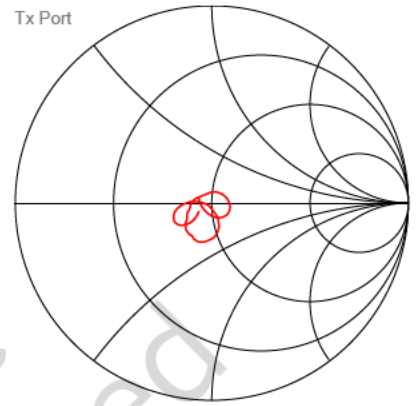
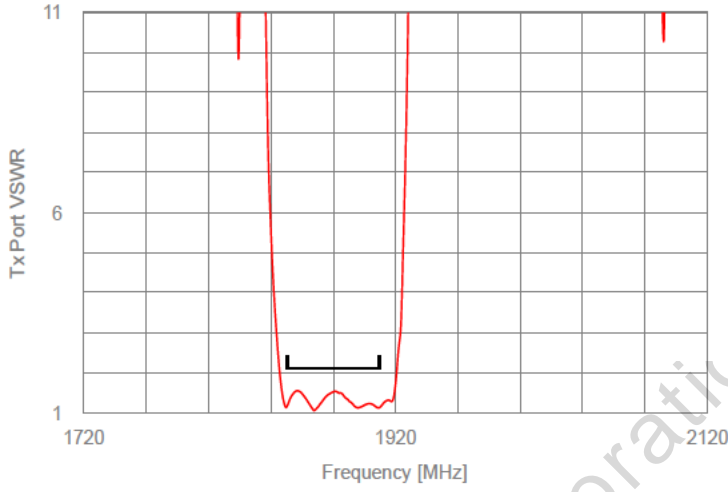


Electrical Characteristics

[Tx to Rx]

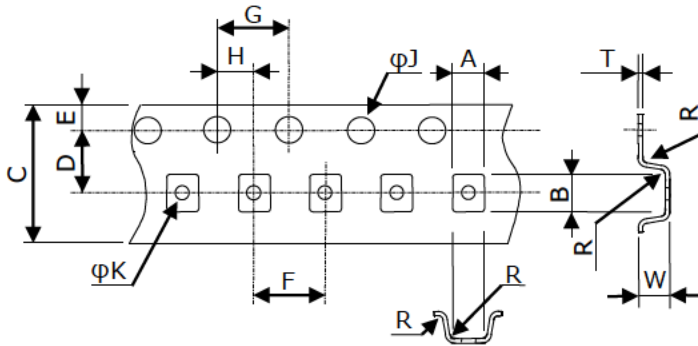


Electrical Characteristics



Tape & Reel Specification

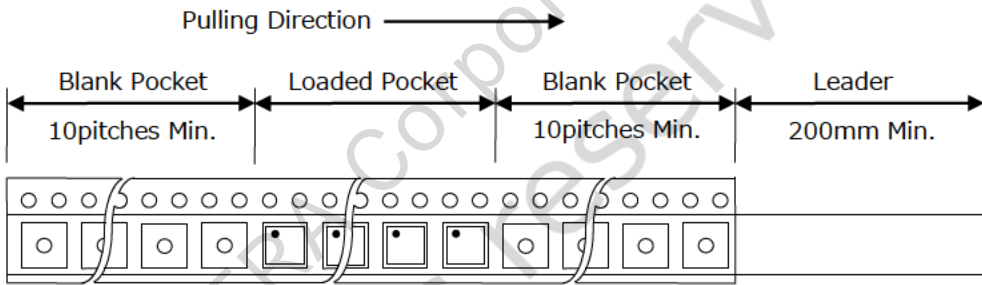
[Tape]



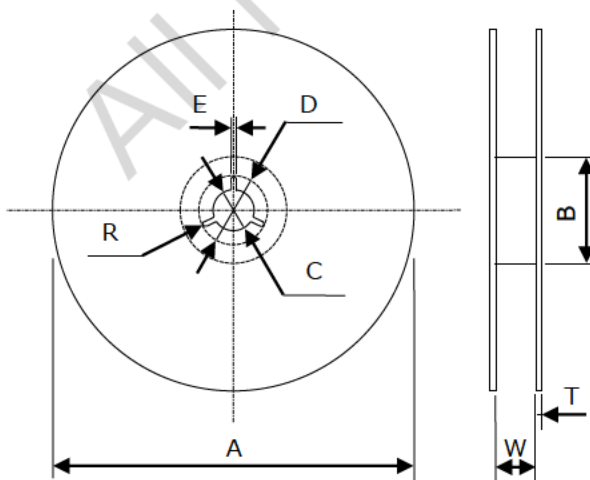
Unit : mm

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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