

Datasheet of SAW Duplexer

1814 Band2 Balanced

KYOCERA Part No. : SD18 1880R8UBA1

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Electrical Characteristics

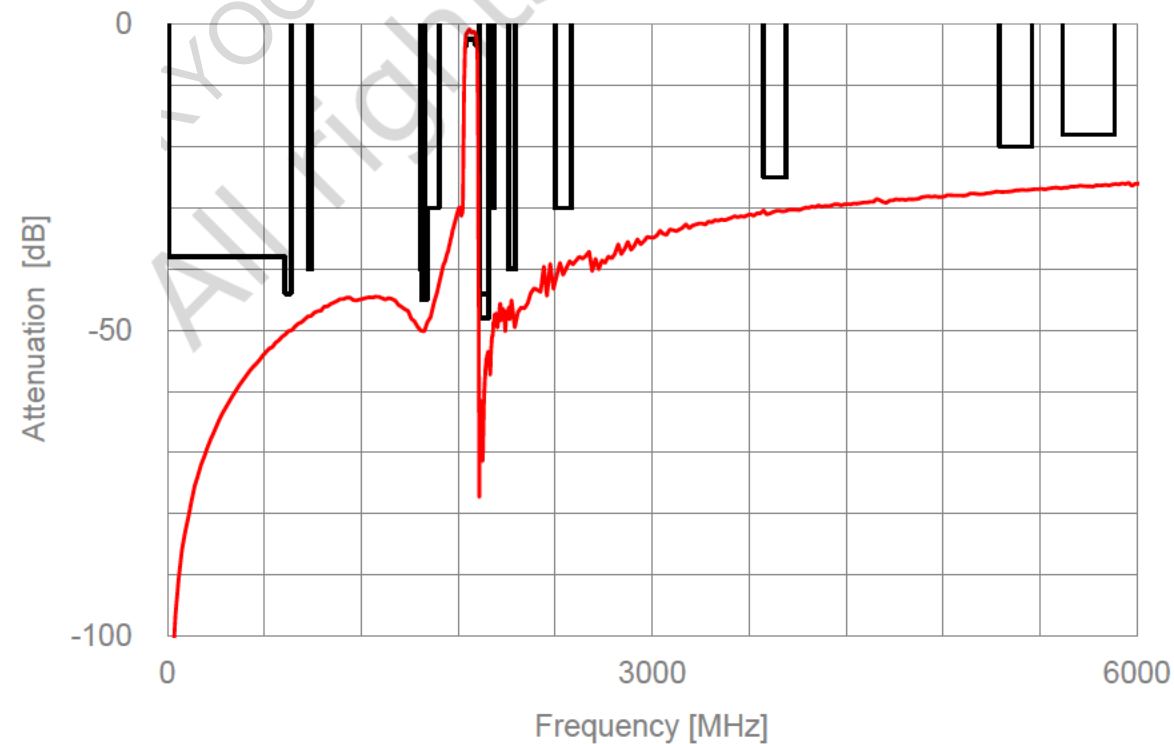
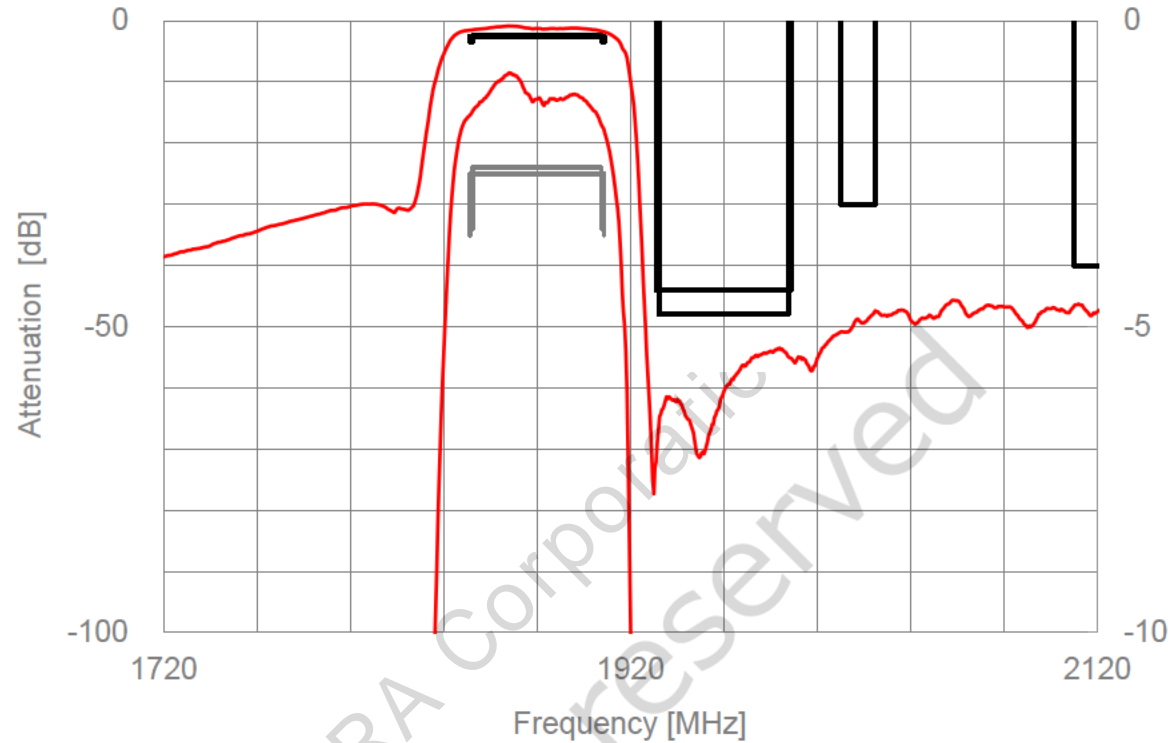
Items		Frequency (MHz)		Characteristics			Unit	Note
				min.	typ.	max.		
Tx to Ant	Nominal Center Frequency	-		1880			MHz	
	Insertion Loss	1852.4	to 1907.6	-	1.6	2.4	dBint*1	
		1851.25	to 1908.75	-	1.7	2.5	dBint*2	
	Ripple (any 5MHz)	1850.48	to 1909.52	-	0.4	1.8	dB	
	VSWR	Tx	1850.48 to 1909.52	-	1.6	2.1	-	
		Ant.	1850.48 to 1909.52	-	1.7	2.1	-	
	Absolute Attenuation	10	to 728	38	51	-	dB	
		728	to 764	44	50	-	dB	
		869	to 894	40	47	-	dB	
		1565.42	to 1573.374	40	50	-	dB	
		1573.374	to 1577.466	45	50	-	dB	
		1577.466	to 1585.42	45	49	-	dB	
		1597.5515	to 1605.886	45	49	-	dB	
		1605.886	to 1680	30	42	-	dB	
		1932.4	to 1987.6	48	53	-	dBint*1	
		1931.25	to 1988.75	44	53	-	dBint*2	
		2010	to 2025	30	47	-	dB	
		2110	to 2155	40	44	-	dB	
		2400	to 2500	30	38	-	dB	
		3690	to 3830	25	30	-	dB	
		5150	to 5350	20	27	-	dB	
		5540	to 5860	18	26	-	dB	
Ant to Rx	Nominal Center Frequency	-		1960			MHz	
	Insertion Loss	1932.4	to 1987.6	-	2.5	3.4	dBint*1	
		1931.25	to 1988.75	-	2.7	3.5	dBint*2	
	Ripple (any 5MHz)	1930.48	to 1989.52	-	0.5	2.5	dB	
	VSWR	Ant	1930.48 to 1989.52	-	1.4	2.0	-	
		Rx	1930.48 to 1989.52	-	1.4	2.0	-	
	Absolute Attenuation	1	to 1850	30	57	-	dB	
		1765	to 1835	35	57	-	dB	
		1852.4	to 1907.6	48	56	-	dBint*1	
		1851.25	to 1908.75	47	56	-	dBint*2	
		2005	to 2050	3	11	-	dB	
		2050	to 2075	25	60	-	dB	
		2400	to 2484	30	55	-	dB	
		2810	to 2910	30	55	-	dB	
		3775	to 3905	30	56	-	dB	
		5625	to 5815	30	71	-	dB	
	Amplitude Imbalance	1930.48	to 1989.52	-2.0	-0.4/1.4	+2.0	dB	
	Phase Imbalance	1930.48	to 1989.52	-15	-6.0/1.0	+15	deg.	
Tx to Rx	Differential Mode Isolation	1574	to 1577	40	64	-	dB	
		1852.4	to 1907.6	53	56	-	dBint*1	
		1851.25	to 1908.75	53	56	-	dBint*2	
		1932.4	to 1987.6	50	60	-	dBint*1	
		1931.25	to 1988.75	50	60	-	dBint*2	
		3700	to 3820	20	56	-	dB	
		5550	to 5850	20	54	-	dB	
	Common Mode Isolation	1852.4	to 1907.6	46	50	-	dBint*1	
		1851.25	to 1908.75	46	50	-	dBint*2	

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

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

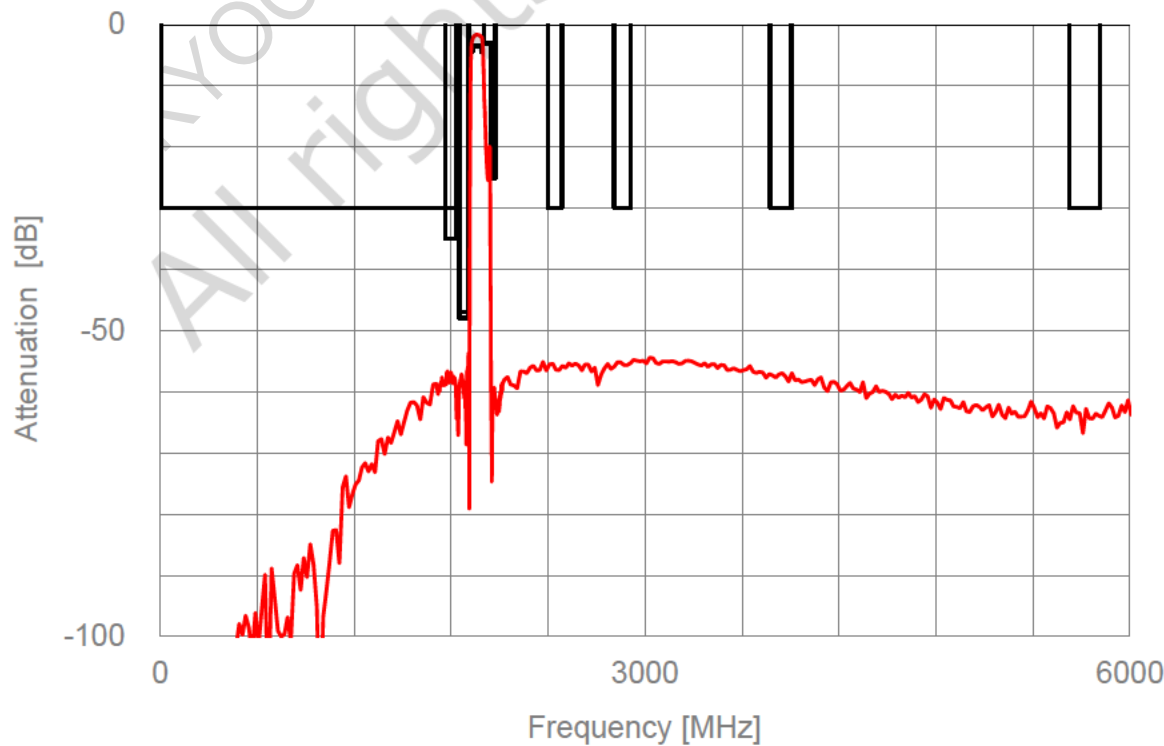
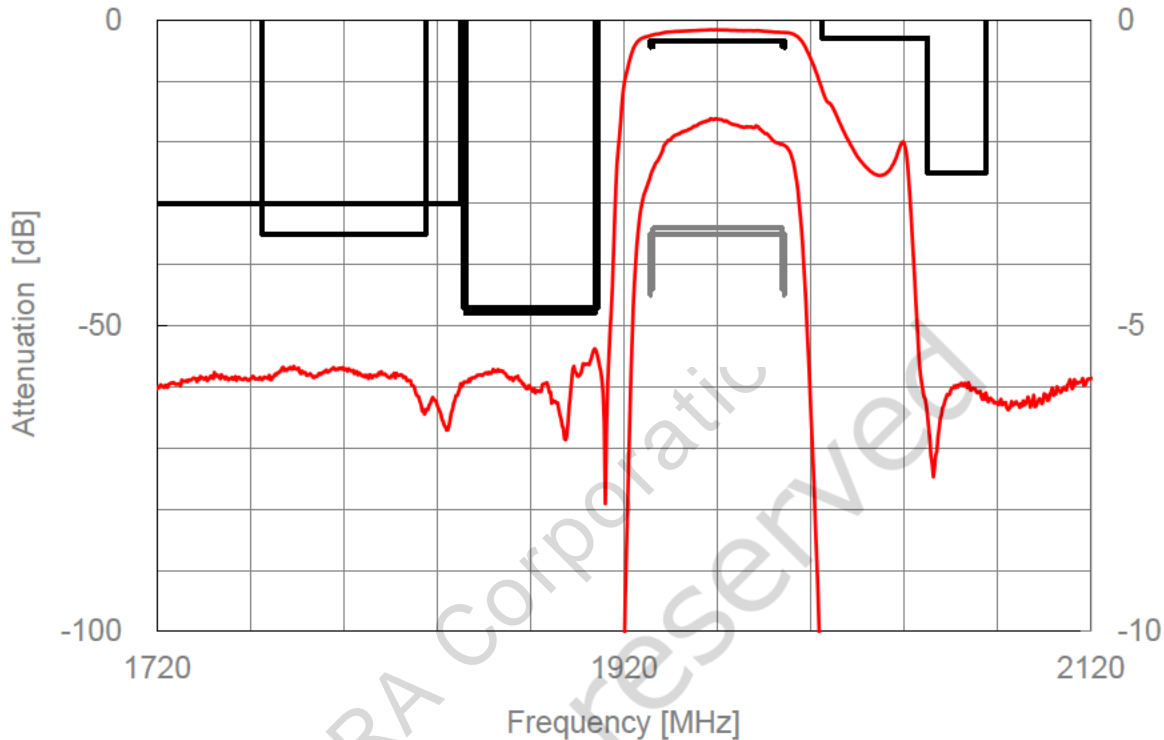
Electrical Characteristics

[Tx to Ant]



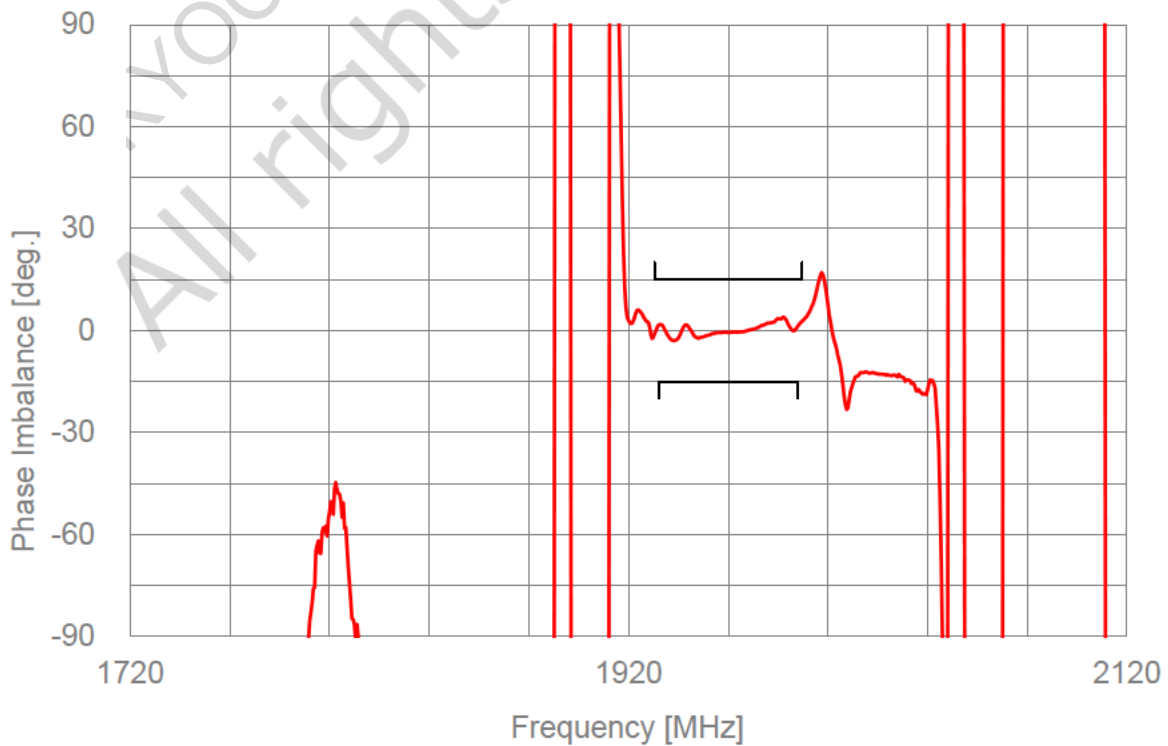
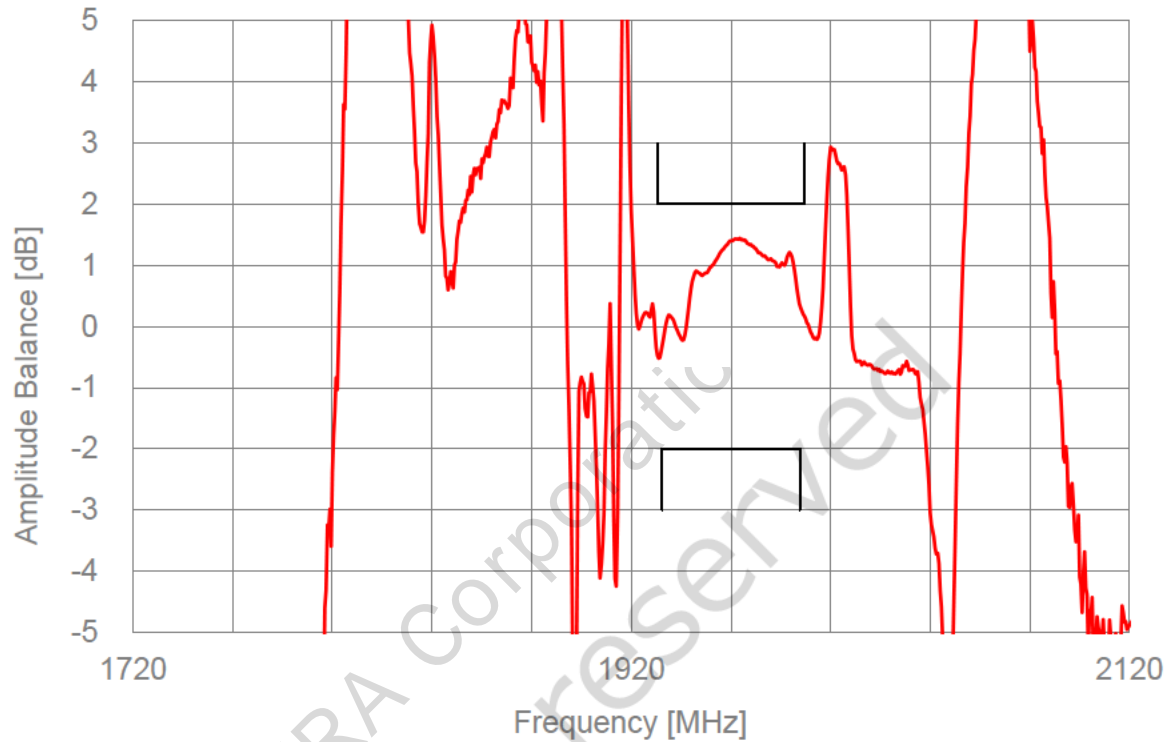
Electrical Characteristics

[Ant to Rx]



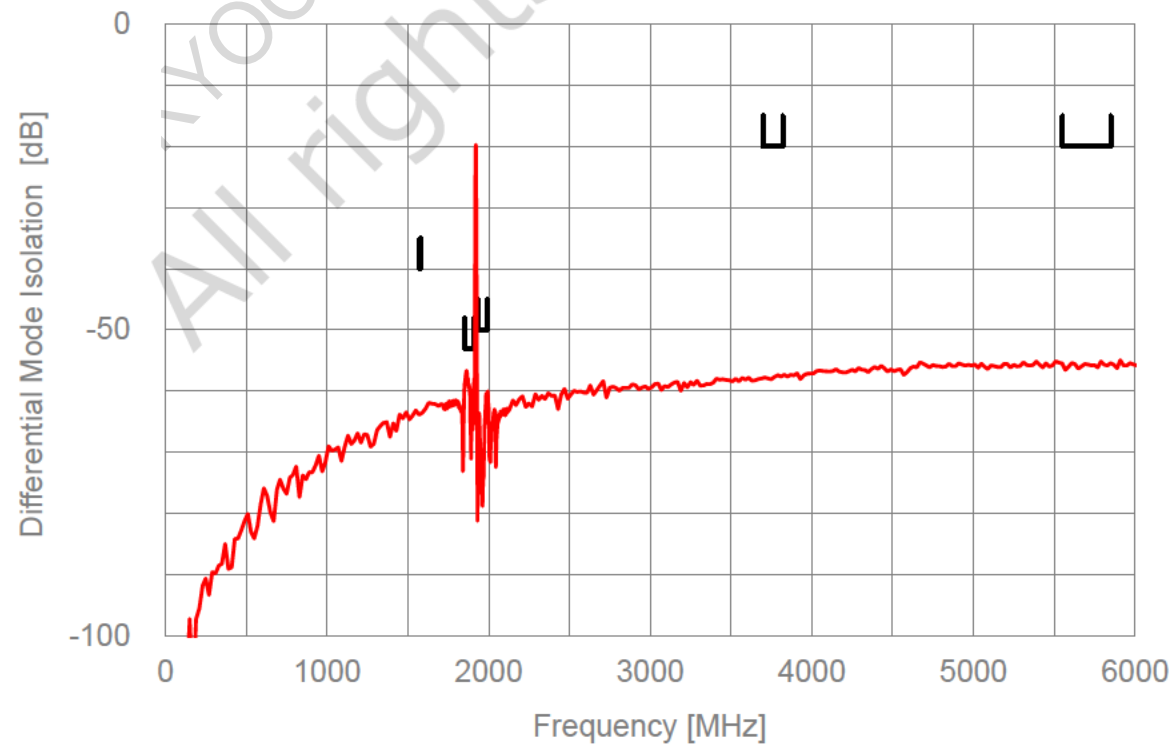
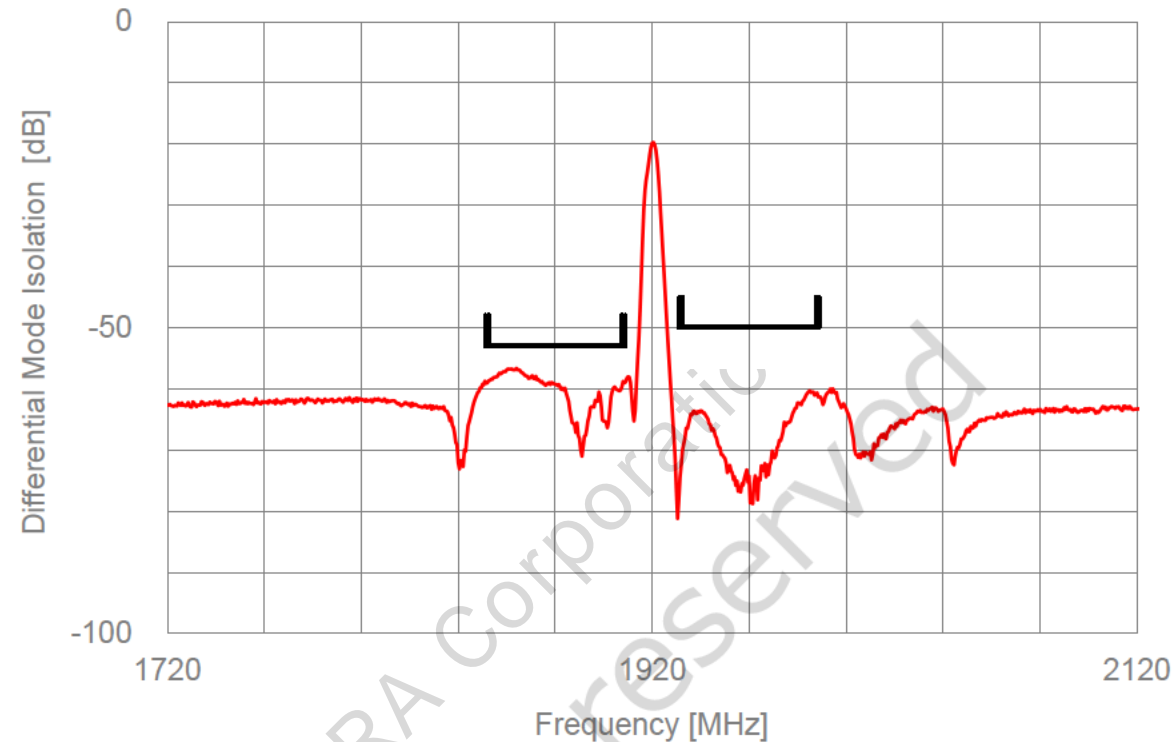
Electrical Characteristics

[Ant to Rx]



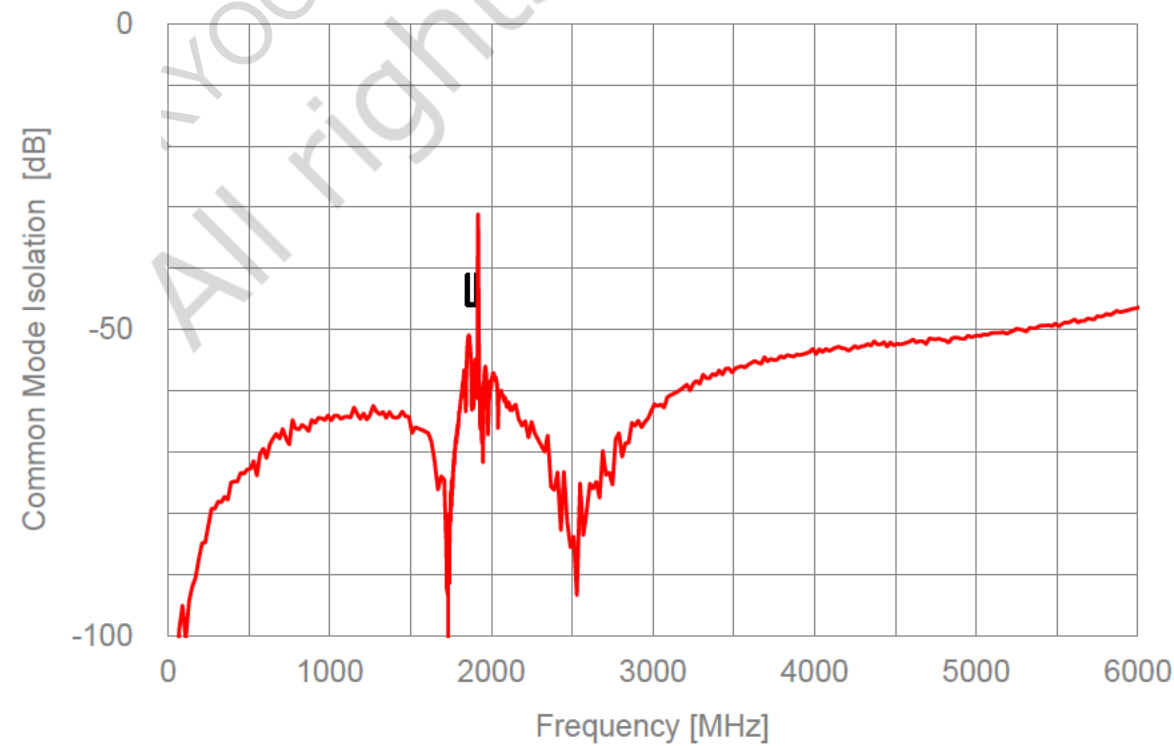
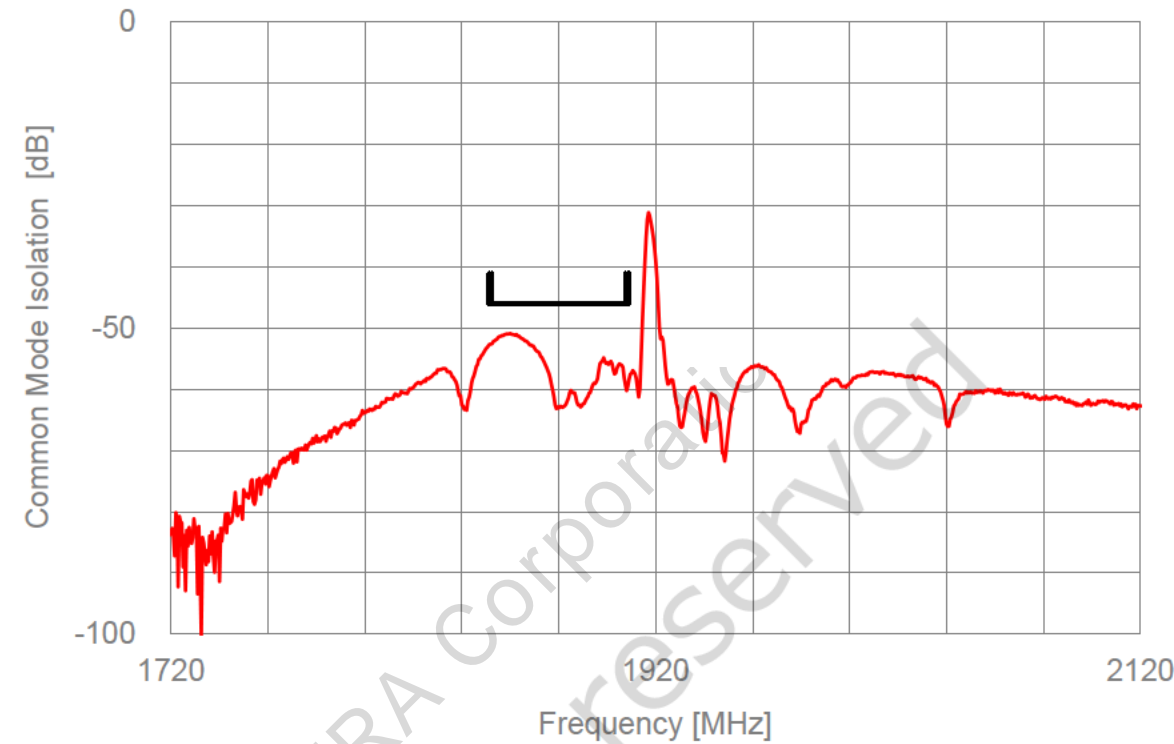
Electrical Characteristics

[Tx to Rx]

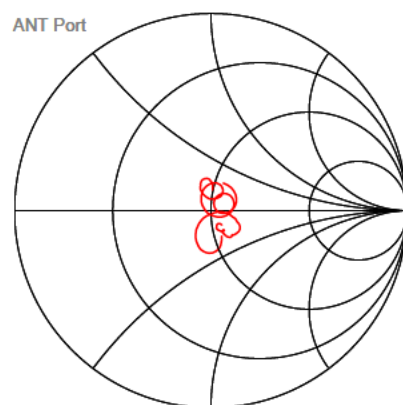
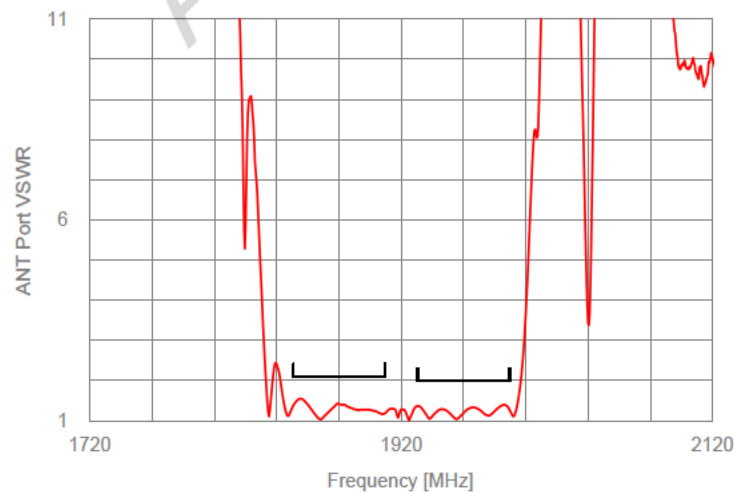
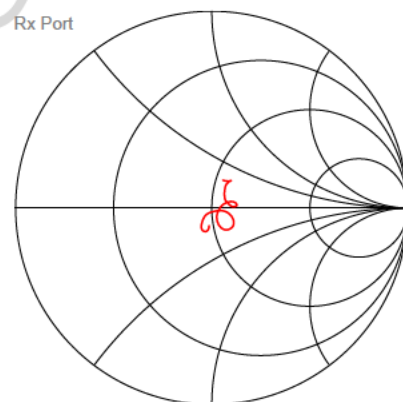
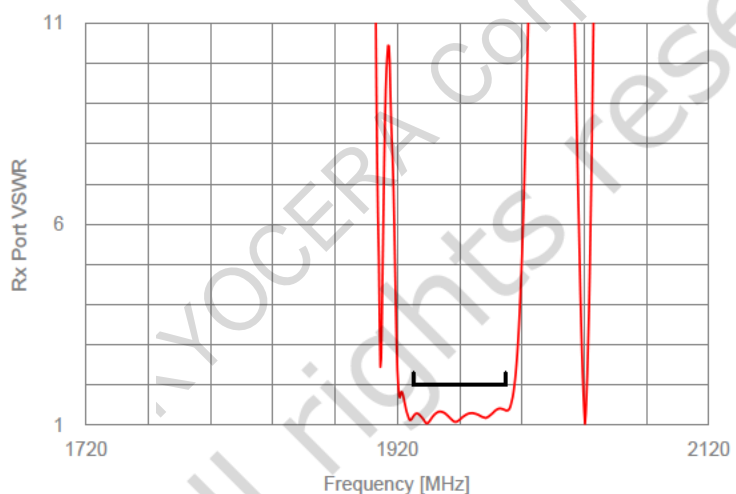
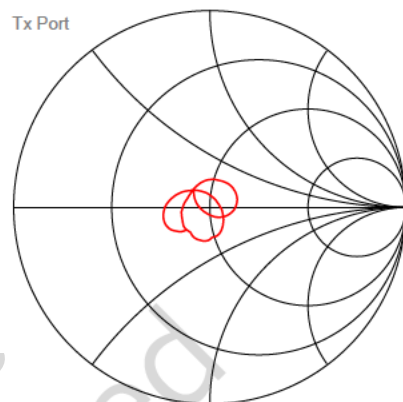
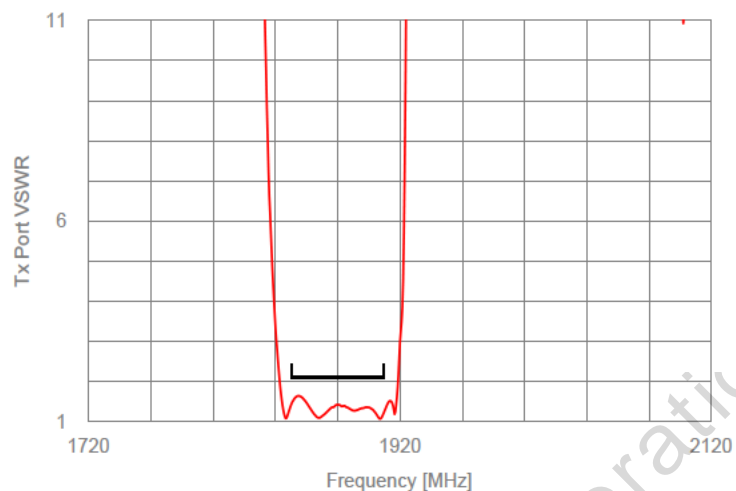


Electrical Characteristics

[Tx to Rx]

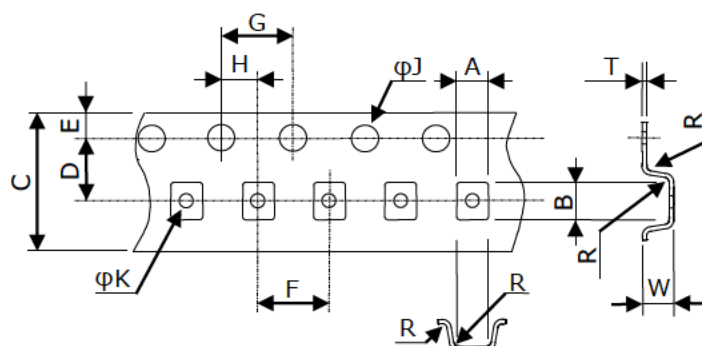


Electrical Characteristics



Tape & Reel Specification

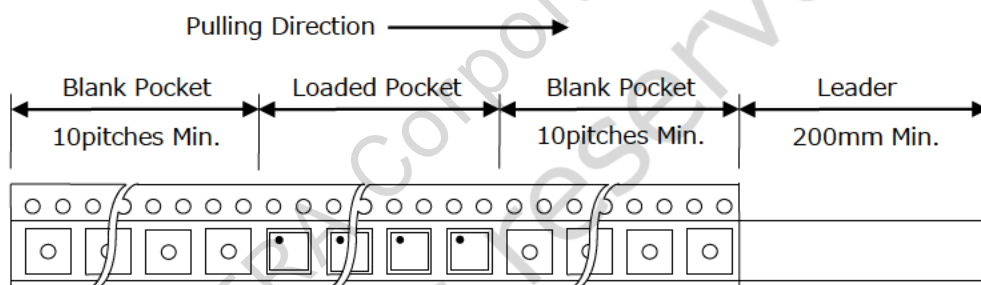
[Tape]



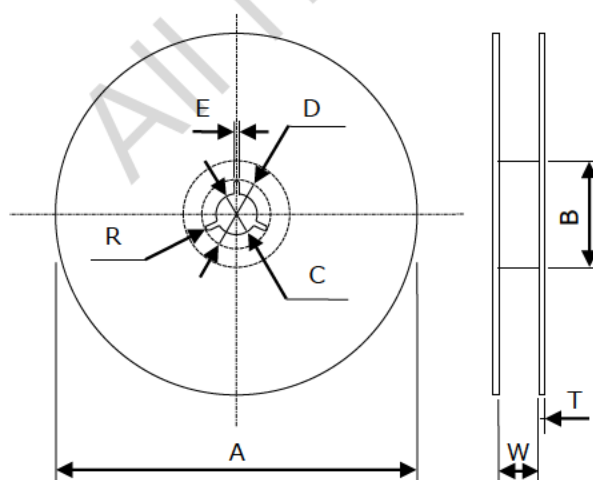
Unit : mm

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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