

Datasheet of SAW Duplexer

1814 Band7 Unbalanced

KYOCERA Part No. : SD18 2535R8UUB1

KYOCERA Corporation
All rights reserved

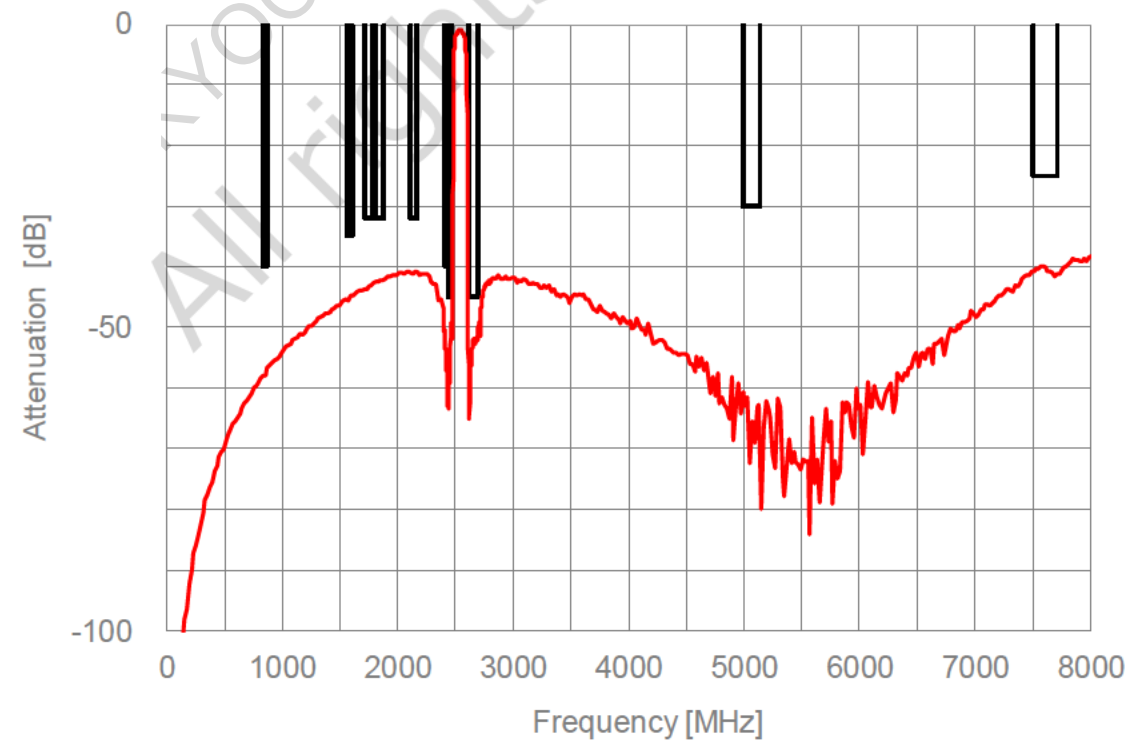
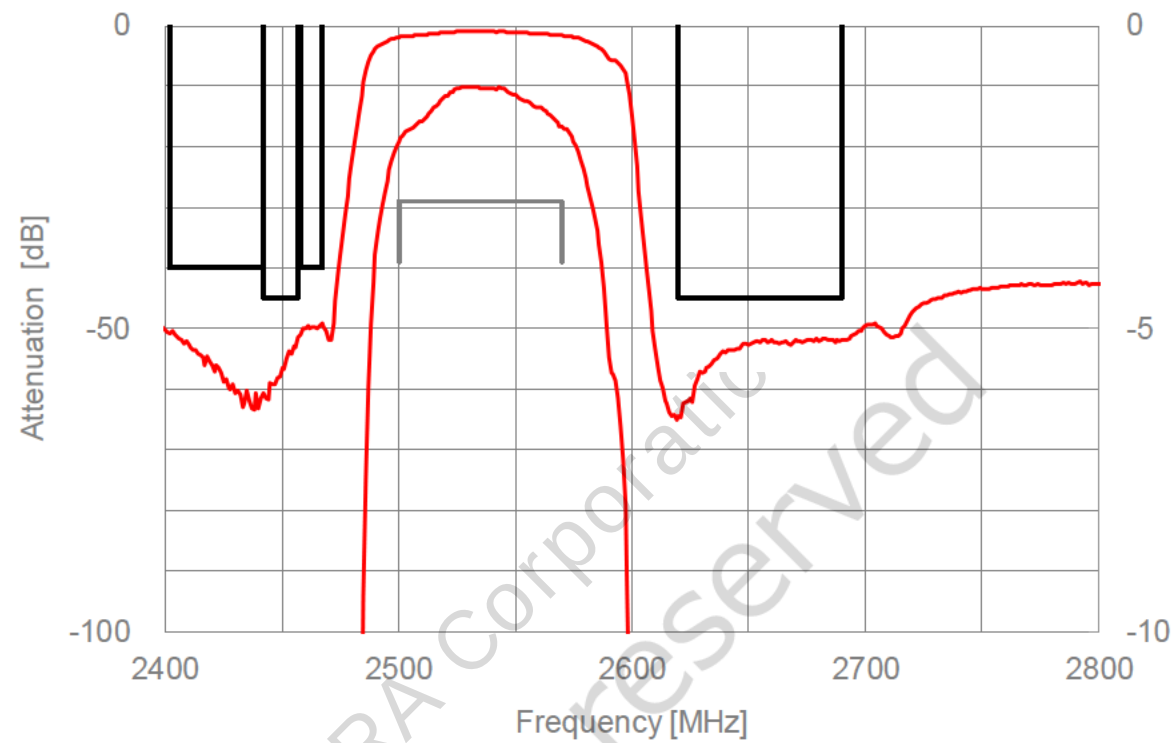
Electrical Characteristics

Items		Frequency (MHz)	Characteristics			Unit	Notes
			Min.	Typ.	Max.		
Tx to Ant	Insertion Loss	2500 - 2570	-	1.9	2.9	dB	
	Ripple	2500 - 2570	-	0.9	2.0	dB	
	VSWR	2500 - 2570	-	1.6	2.0		
	Attenuation	832 - 862	40	57	-	dB	B20 Tx CA
		1559 - 1563	35	45	-	dB	Compass
		1565.42 - 1573.37	35	45	-	dB	Wideband GPS Lower
		1573.37 - 1577.47	35	45	-	dB	GPS main
		1577.47 - 1585.42	35	45	-	dB	Wideband GPS Upper
		1597.55 - 1605.89	35	45	-	dB	GLONASS
		1710 - 1785	32	43	-	dB	B3 Tx CA
		1805 - 1880	32	42	-	dB	B3 Rx
		2110 - 2170	32	41	-	dB	B1 Rx
		2403 - 2466	45	51	-	dBint ^{*1)}	W AN CH -10
		2453 - 2471	35	50	-	dBint ^{*1)}	WLAN CH11
		2458 - 2476	21	43	-	dBint ^{*1)}	WLAN CH12
		2463 - 2481	11	29	-	dBint ^{*1)}	WLAN CH13
		2403 - 2466	48	51	-	dBint ^{*1)}	WLAN CH1-10, +23 to 27deg.C
		2453 - 2471	47	50	-	dBint ^{*1)}	WLAN CH11, +23 to 27deg.C
		2458 - 2476	35	43	-	dBint ^{*1)}	WLAN CH12, +23 to 27deg.C
		2463 - 2481	21	29	-	dBint ^{*1)}	WLAN CH13, +23 to 27deg.C
		2402 - 2442	40	50	-	dB	ISM
		2442 - 2457	45	51	-	dB	ISM
		2458 - 2467	40	49	-	dB	ISM
		2620 - 2690	45	52	-	dB	Rx
		5000 - 5140	30	62	-	dB	2f
		7500 - 7710	25	40	-	dB	3f
Ant to Rx	Insertion Loss	2620 - 2690	-	1.9	2.9	dB	
	Ripple	2620 - 2690	-	0.7	1.5	dB	
	VSWR	2620 - 2690	-	1.7	2.0		
	Attenuation	718 - 748	40	62	-	dB	B28 Tx CA
		814 - 862	40	59	-	dB	B26/B20 Tx CA
		880 - 915	40	58	-	dB	B8 Tx CA
		1710 - 1785	40	46	-	dB	B3 Tx CA
		1920 - 1980	40	44	-	dB	B1 Tx CA
		2402 - 2470	41	46	-	dB	WLAN coexistence
		2500 - 2570	45	56	-	dB	Tx
		2775 - 6000	35	44	-	dB	
		4900 - 5950	40	57	-	dB	ISM 5G
Tx to Rx	Isolation	2500 - 2570	53	56	-	dB	
		2620 - 2690	50	54	-	dB	

*1) dBint : Integrated any 18MHz

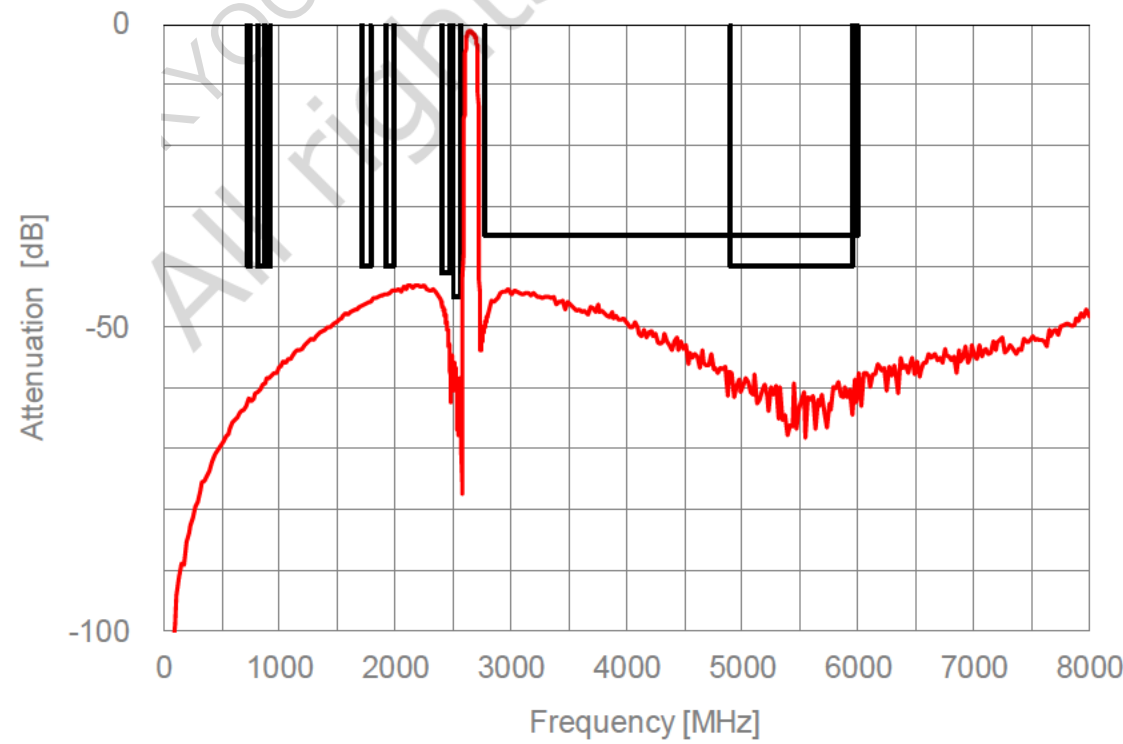
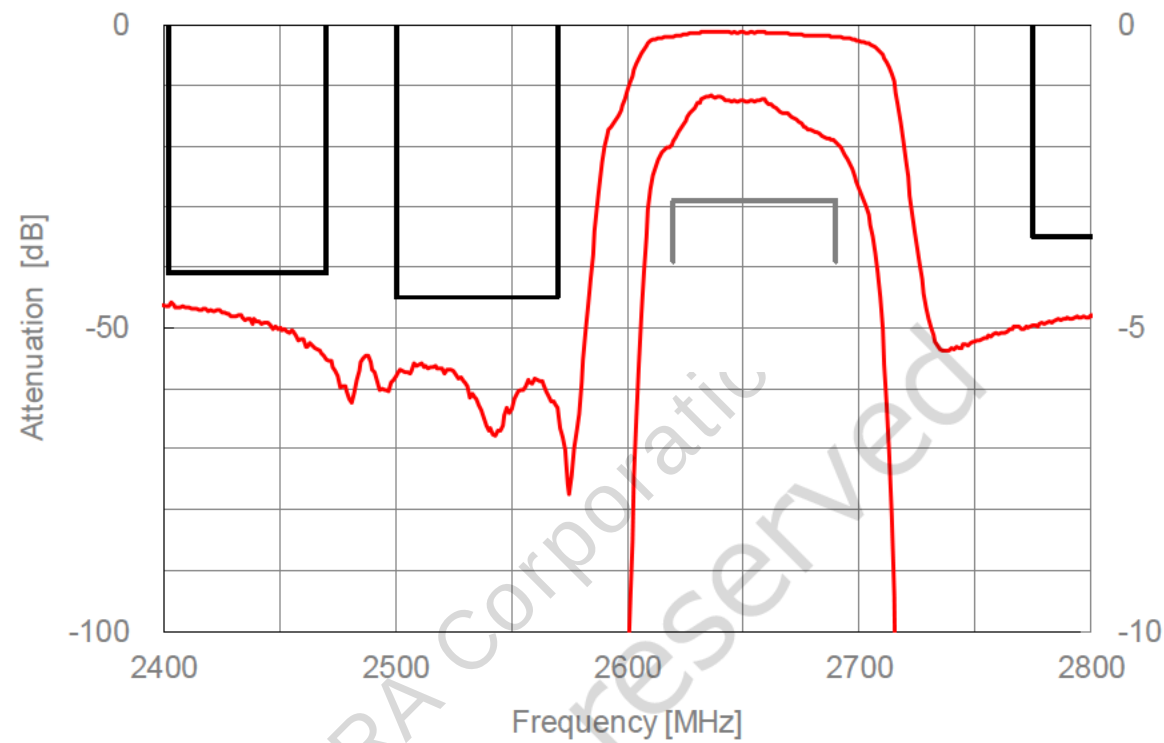
Electrical Characteristics

[Tx to Ant]



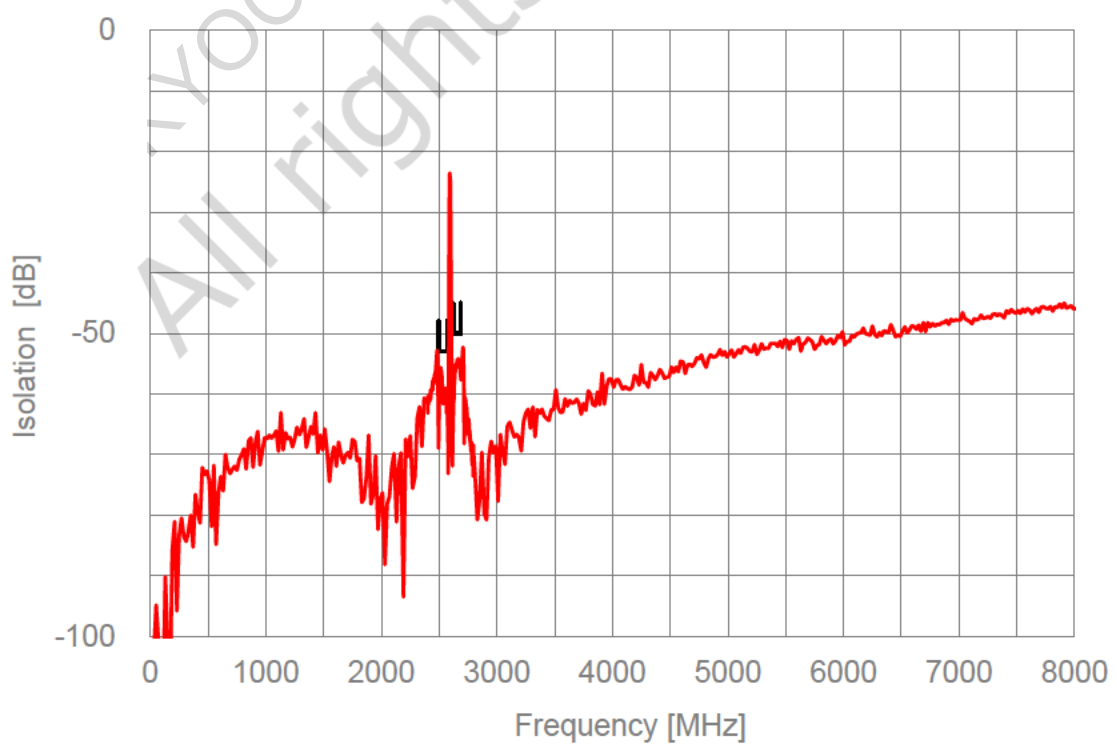
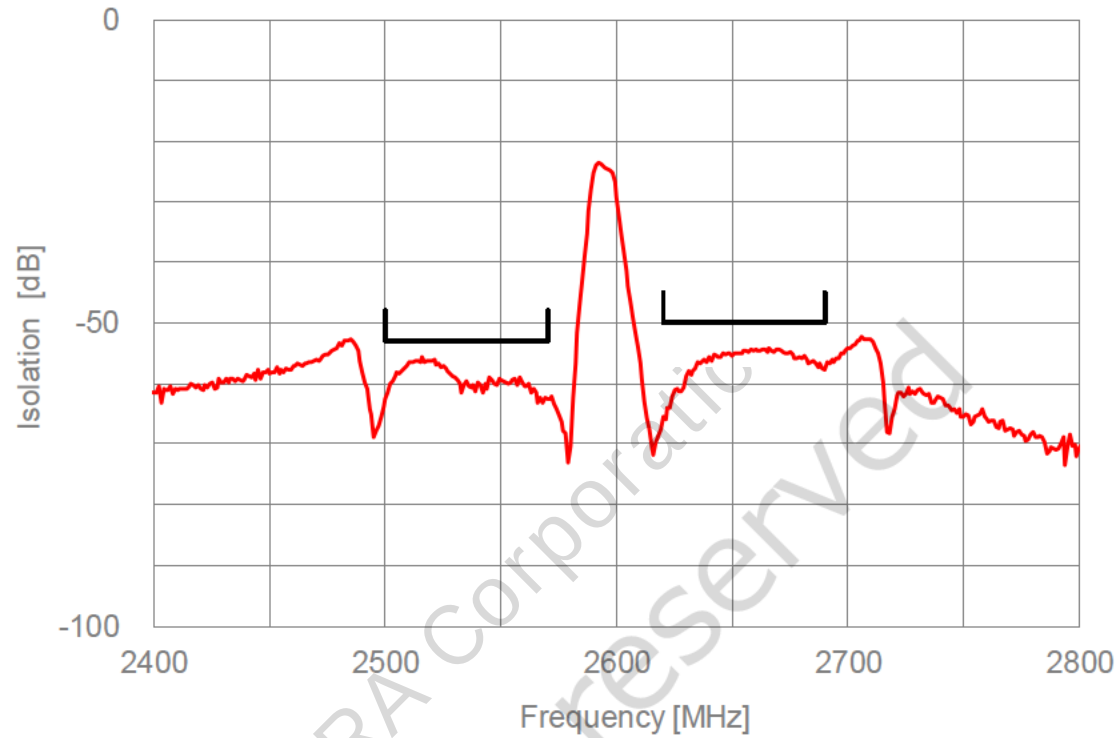
Electrical Characteristics

[Ant to Rx]

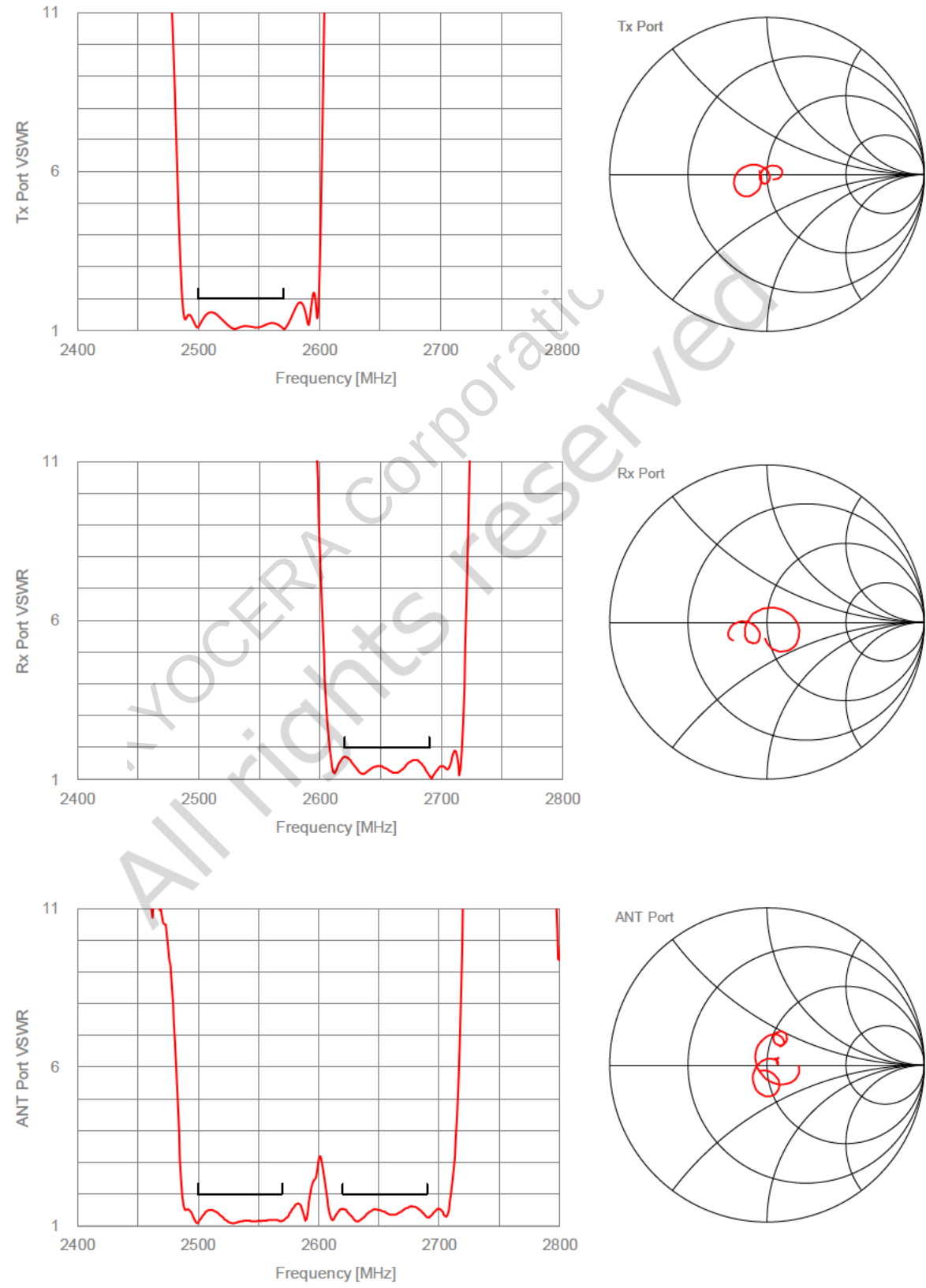


Electrical Characteristics

[Tx to Rx]

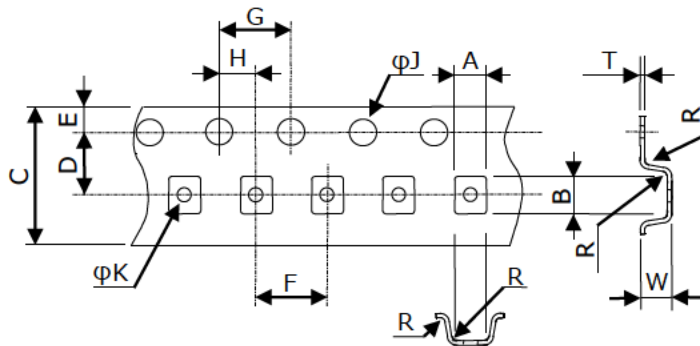


Electrical Characteristics



Tape & Reel Specification

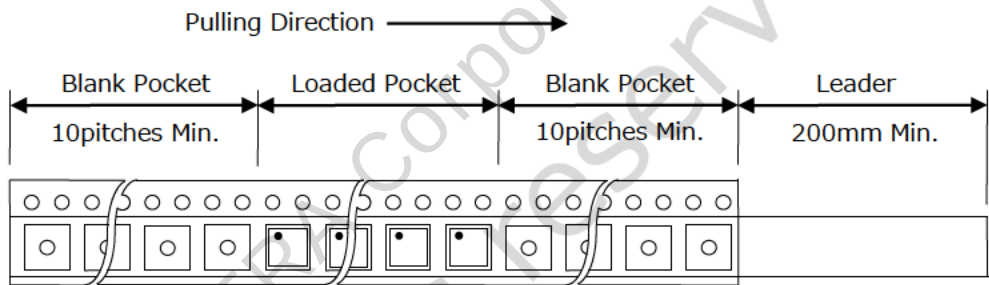
[Tape]



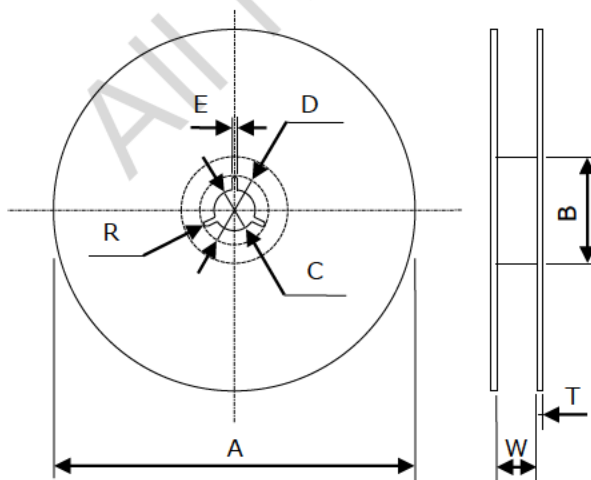
Unit : mm

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

Notice

1. Characteristics described in this datasheet are for references specifications shall be based on written documents agreed by each party.
2. Contents in this datasheet are subject to change without notice. It is recommended to confirm the latest information at the time of usage. Also, this datasheet is revised once a year. We may not be able to accept requests based on old datasheets.
3. Products in this datasheet are intended to be used in general electronic equipment such as office equipment, audio and visual equipment, communication equipment, measurement instrument and home appliances. It is absolutely recommended to consult with our sales representatives in advance upon planning to use our products in applications which require extremely high quality and reliability such as aircraft and aerospace equipment, traffic systems, safety systems, power plant and medical equipment including life maintenance systems.
4. Even though we strive for improvements of quality and reliability of products, it is requested to design with enough safety margin in equipment or systems in order not to threaten human lives directly or damage human bodies or properties by an accidental result of products.
5. It is requested to design based on guaranteed specifications for such as maximum ratings, operating voltage and operating temperature. It is not the scope of our guarantee for unsatisfactory results due to misuse or inadequate usage of products in the datasheet.
6. Operation summaries and circuit examples in this datasheet are intended to explain typical operation and usage of the product. It is recommended to perform circuit and assembly design considering surrounding conditions upon using products in this datasheet.
7. Technical information described in this datasheet is meant to explain typical operations and applications of products, and it is not intended to guarantee or license intellectual properties or other industrial rights of the third party or Kyocera.
8. Trademarks, logos and brand names used in this datasheet are owned by Kyocera or the corresponding third party.
9. Certain products in this datasheet are subject to the Foreign Exchange and Foreign Trade Control Act of Japan, and require the license from Japanese Government upon exporting the restricted products and technical information under the law. Besides, it is requested not to use products and technical information in the datasheet for the development and/or manufacture of weapons of mass destruction or other conventional weapons, nor to provide them to any third party with the possibility of having such purposes.
10. It is prohibited to reprint and reproduce a part or whole of this datasheet without permission.