

Datasheet of SAW Duplexer 1612 Band26 Unbalanced

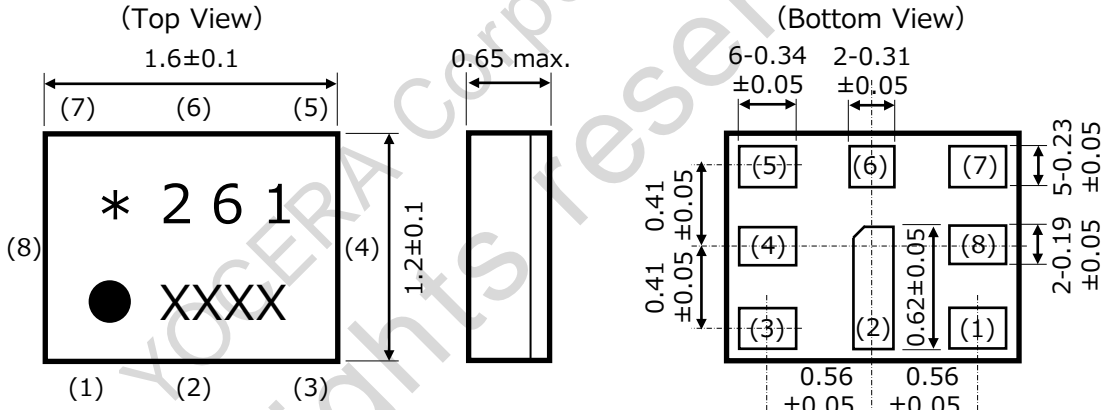
KYOCERA Part No. : SD16-0832R8UUA1

KYOCERA Corporation
All rights reserved

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 Band	30	dBm	5,000Hours,CW,Ta=50deg.C
		30	dBm	5,000Hours,QPSK,LTE,Ta=50deg.C
		30	dBm	5,000Hours,DFT-s-OFDM-QPSK,Ta=50deg.C
		28.5	dBm	5,000Hours,CP-OFDM-QPSK,Ta=50deg.C
ESD Level	Machine Model	50	Volt	Complied to JESD22-A115
Moisture Sensitivity Level		3		Complied to J-STD-033B.1
Tx Port Nominal Impedance		50+12nH(series)	ohm	Unbalance
Ant. Port Nominal Impedance		50//12nH(shunt)	ohm	Unbalance
Rx Port Nominal Impedance		50+3.3nH(series)	ohm	Unbalance

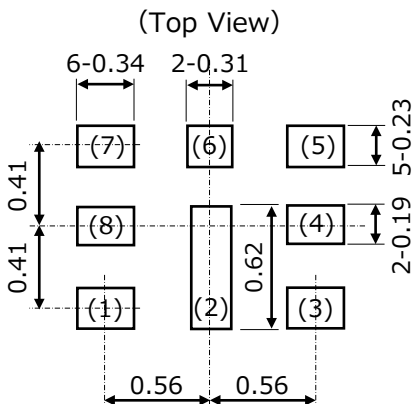
Dimensions



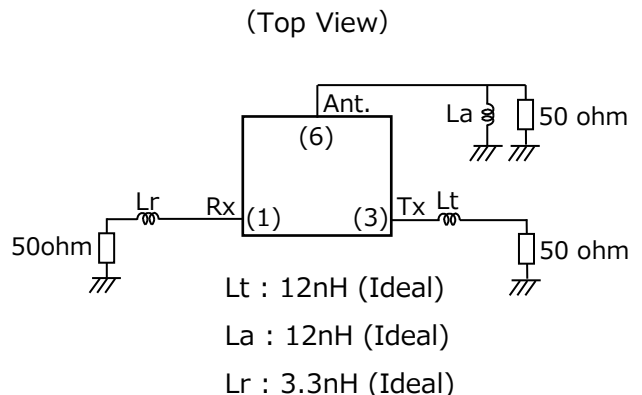
- * : Identification mark
- 261 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit

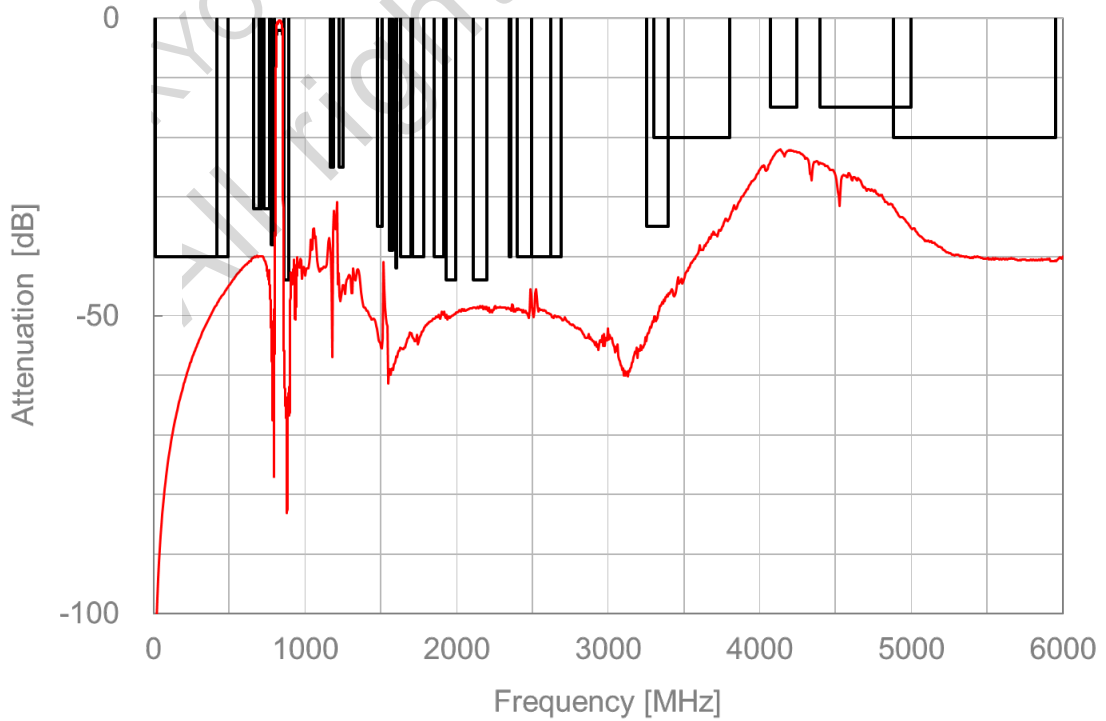
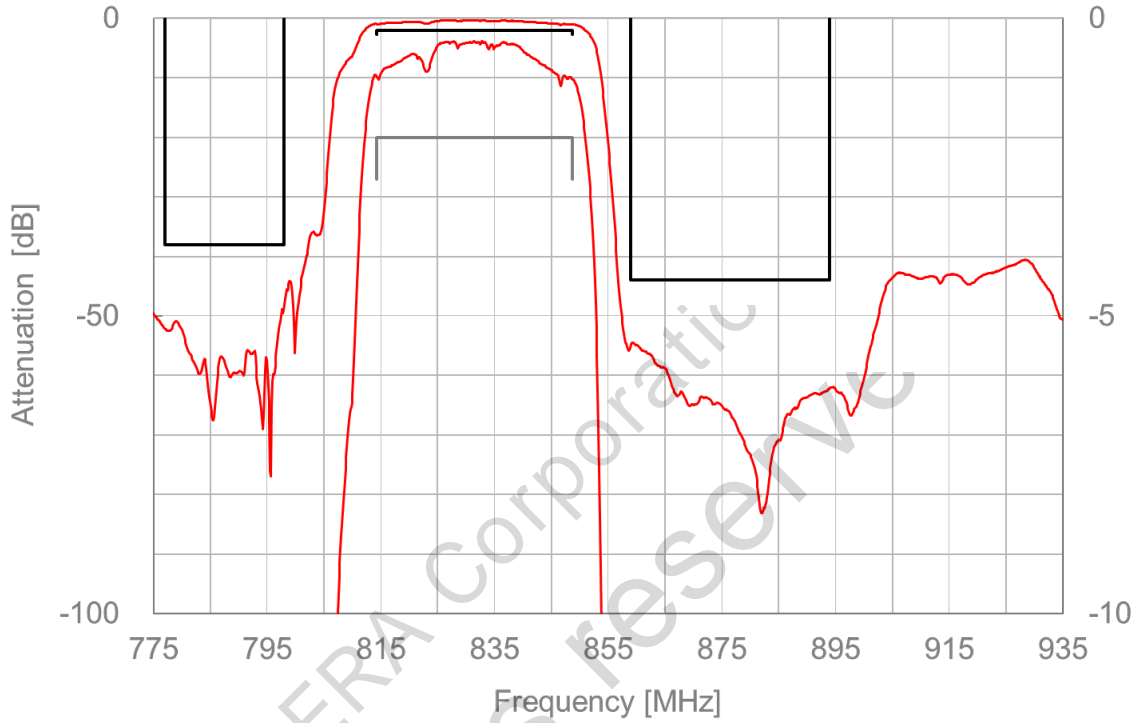


Electrical Characteristics

ITEMS		Frequency [MHz]		Unit	Specification			Notes	
					min.	typ.	max.		
Tx to Ant	Insertion Loss	814.24	- 848.76	dB	-	1.1	2.0		
	Passband Ripple	814.24	- 848.76	dB	-	0.8	2.0		
	VSWR	Ant	814.24	- 848.76	-	-	1.6	2.0	
		Tx	814.24	- 848.76	-	-	1.6	2.0	
	Attenuation	10	- 420	dB	40	48	-		
		420	- 494	dB	40	45	-		
		663	- 698	dB	32	40	-		
		699	- 716	dB	32	40	-		
		728	- 764	dB	32	40	-		
		777	- 798	dB	38	48	-		
		859	- 894	dB	44	55	-		
		1166	- 1187	dB	25	38	-		
		1225	- 1250	dB	25	43	-		
		1475.9	- 1510.9	dB	35	53	-		
		1559	- 1563	dB	39	59	-		
		1565.42	- 1573.37	dB	39	59	-		
		1573.37	- 1577.47	dB	39	59	-		
		1577.47	- 1585.42	dB	39	58	-		
		1597.55	- 1605.89	dB	42	57	-		
		1628	- 1698	dB	40	53	-		
		1710	- 1785	dB	40	52	-		
		1850	- 1915	dB	40	49	-		
		1930	- 1995	dB	44	50	-		
		2110	- 2200	dB	44	48	-		
	2350	- 2360	dB	40	49	-			
	2400	- 2690	dB	40	46	-			
	2402	- 2494	dB	40	46	-			
	2620	- 2690	dB	40	50	-			
3256	- 3396	dB	35	46	-				
3300	- 3800	dB	20	34	-				
4070	- 4245	dB	15	22	-				
4400	- 5000	dB	15	24	-				
4884	- 5950	dB	20	32	-				
Ant to Rx	Insertion Loss	859.24	- 893.76	dB	-	1.6	2.5		
	Passband Ripple	859.24	- 893.76	dB	-	0.8	2.0		
	VSWR	Ant	859.24	- 893.76	-	-	1.8	2.3	
		Rx	859.24	- 893.76	-	-	1.6	2.0	
	Attenuation	10	- 447	dB	40	57	-		
		0.01	- 45	dB	50	96	-		
		814	- 849	dB	41	54	-		
		909	- 979	dB	3	15	-		
		1427	- 1447	dB	38	51	-		
		1710	- 1785	dB	44	54	-		
		1850	- 1915	dB	44	57	-		
		1920	- 1980	dB	40	57	-		
2400		- 2500	dB	40	59	-			
2467		- 2494	dB	44	63	-			
2577	- 2682	dB	40	64	-				
4900	- 5950	dB	30	39	-				
Tx to Rx	Isolation	814.24	- 848.76	dB	52	57	-		
		824.24	- 848.76	dB	52	57	-		
		859.24	- 893.76	dB	53	55	-		
		869.24	- 893.76	dB	55	64	-		

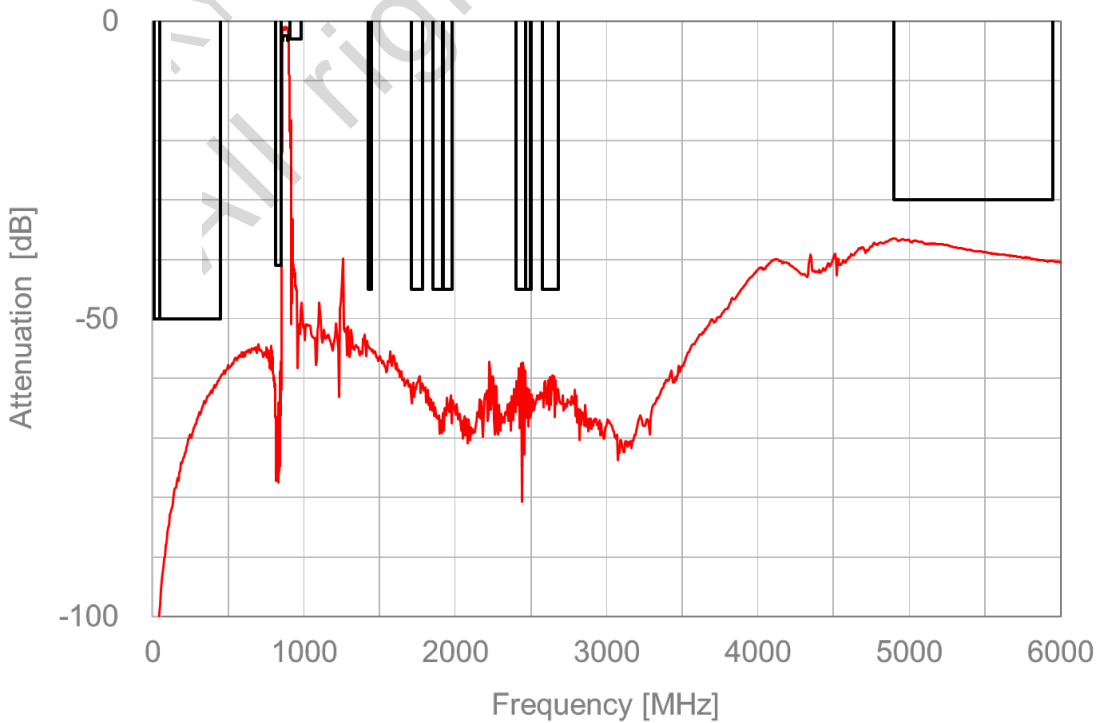
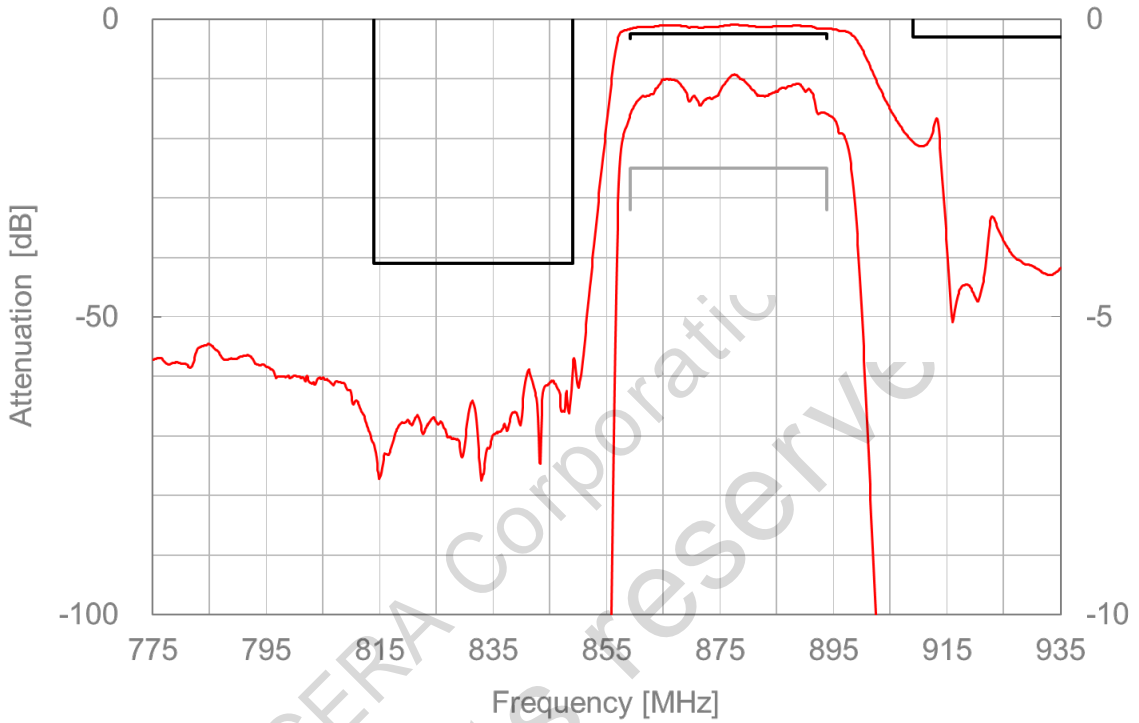
Electrical Characteristics

[Tx to Ant]



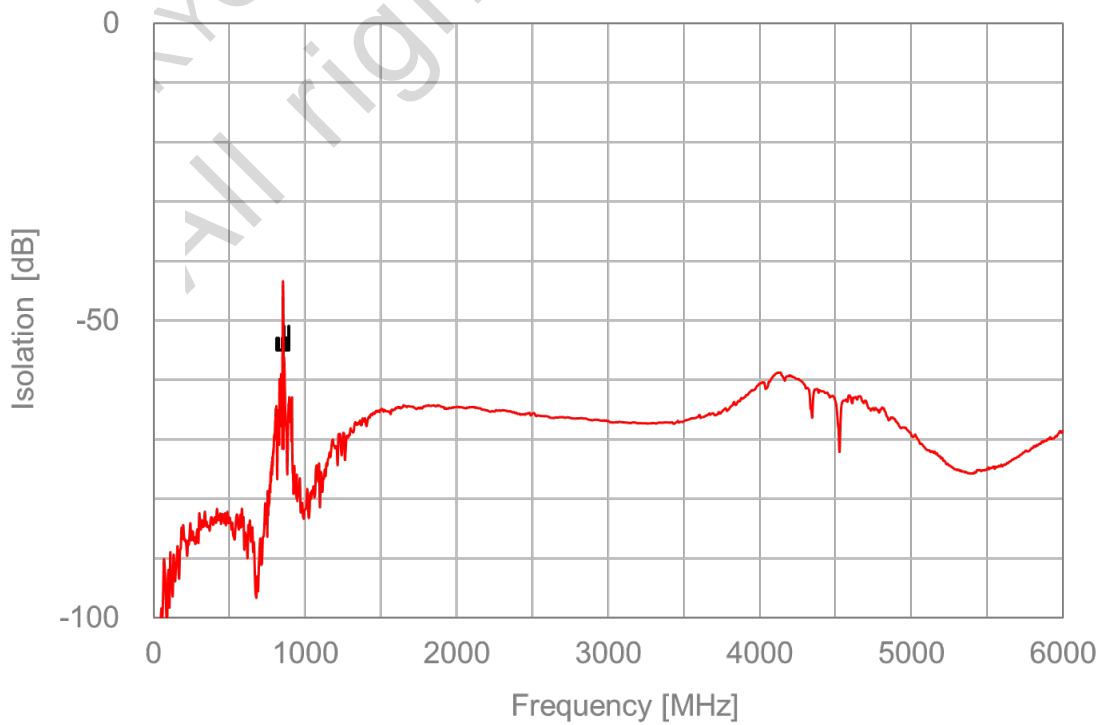
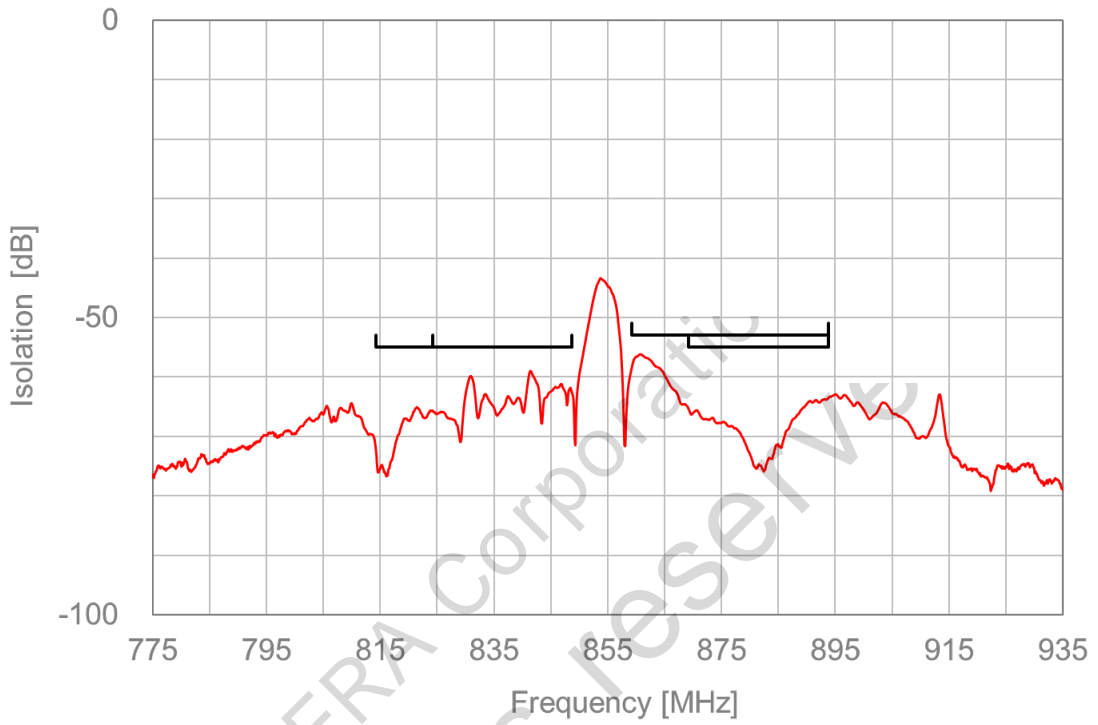
Electrical Characteristics

[Ant to Rx]

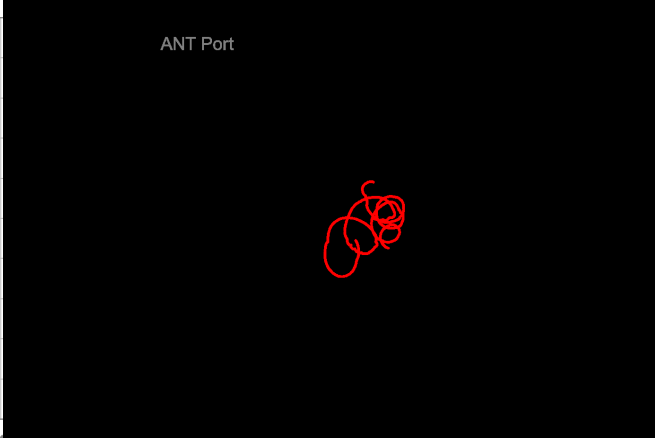
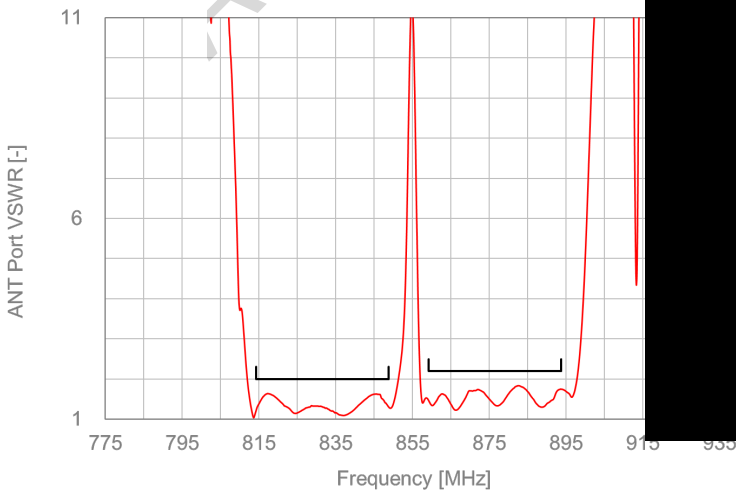
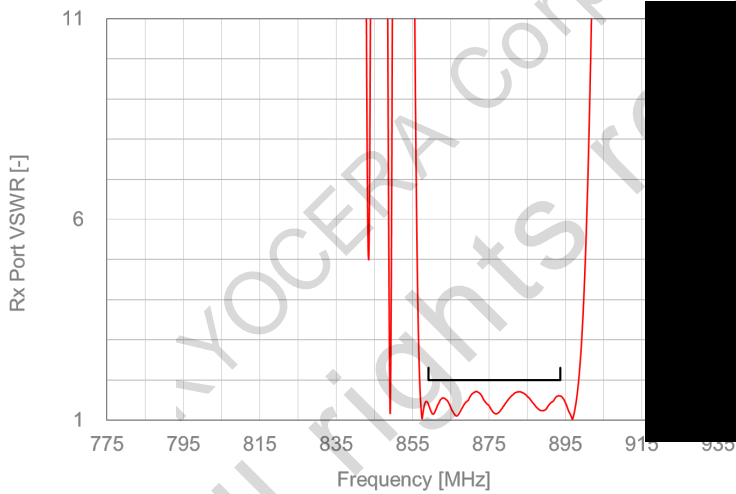
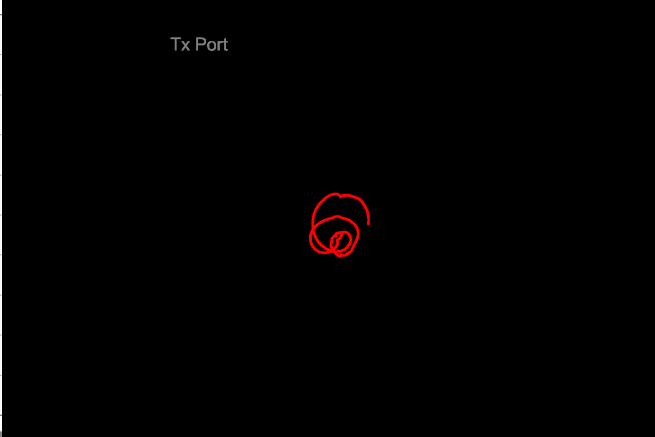
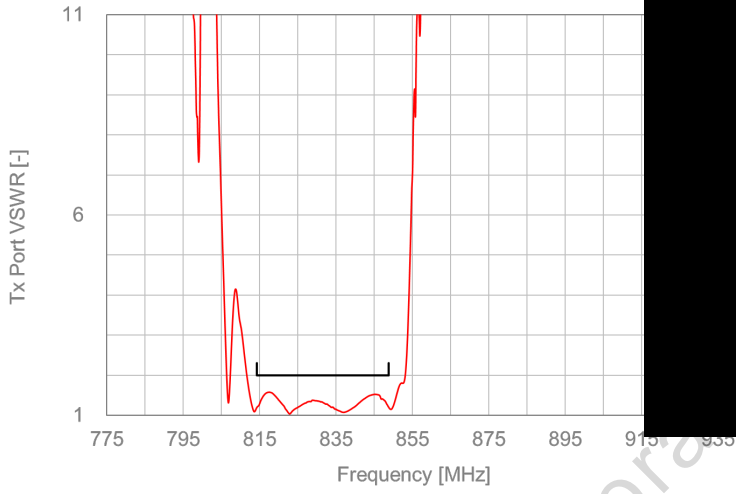


Electrical Characteristics

[Tx to Rx]

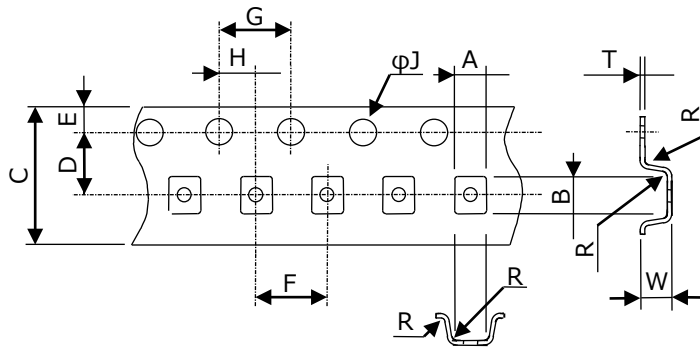


Electrical Characteristics



Tape & Reel Specification

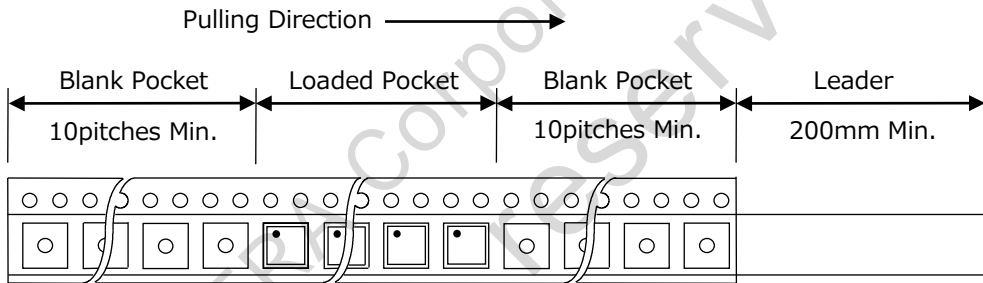
[Tape]



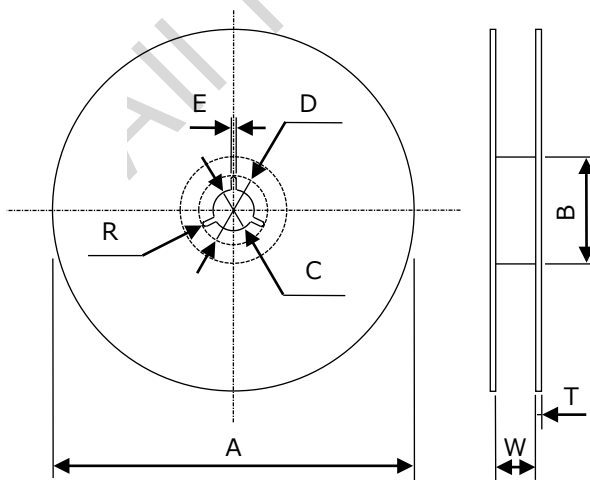
Unit : mm

Part	Dimension
A	1.35±0.10
B	1.80±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
R	0.2 Max
W	0.8±0.2
T	0.20±0.05

W : Dimension is depth of pockets.



[Reel]



Unit : mm

Part	Dimension
A	330 ± 2
B	100 ± 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.