

Datasheet of SAW Duplexer 1612 Band26 Unbalanced

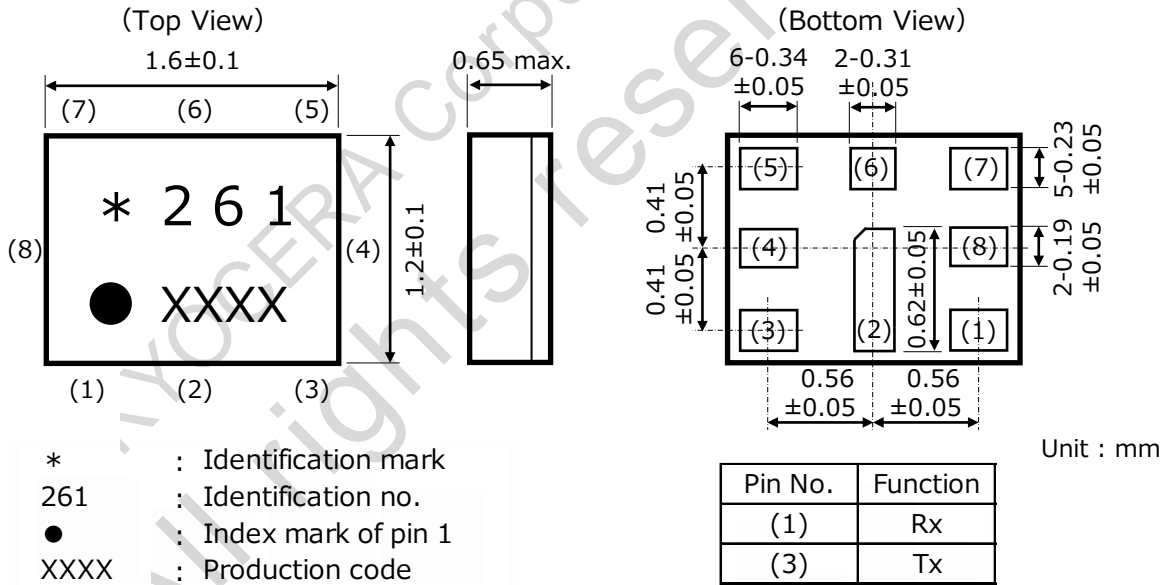
KYOCERA Part No. : SD16-0832R8UUA1

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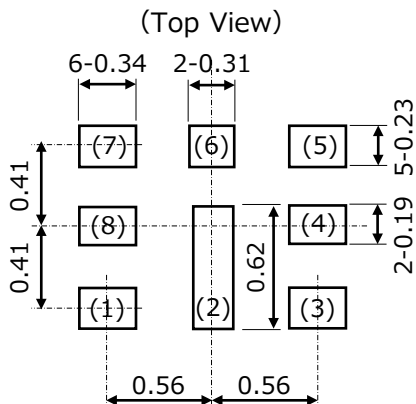
Rating

Items		Rating	Unit	Note
Operating Temperature Range		-30 to +85	deg.C	
Storage Temperature Range		-40 to +85	deg.C	
Max Input Power	Tx 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

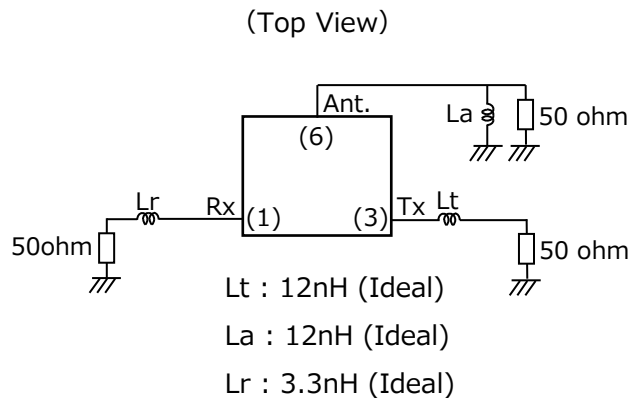
Dimensions



Recommendable Land Pattern



Measurement Circuit

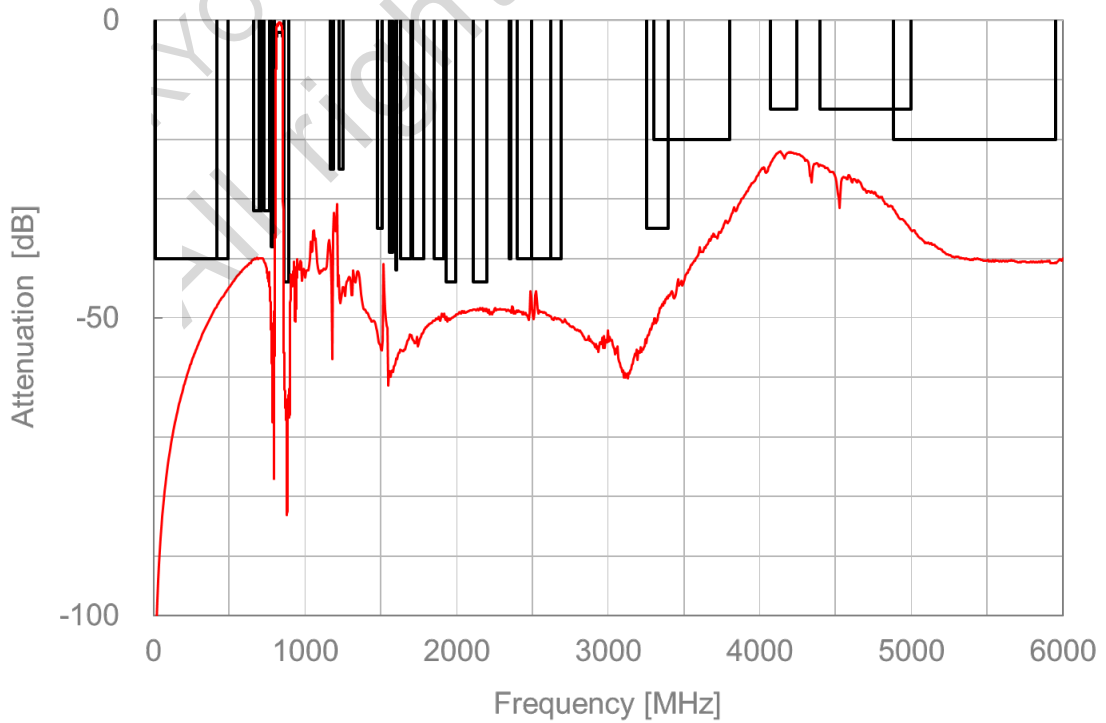
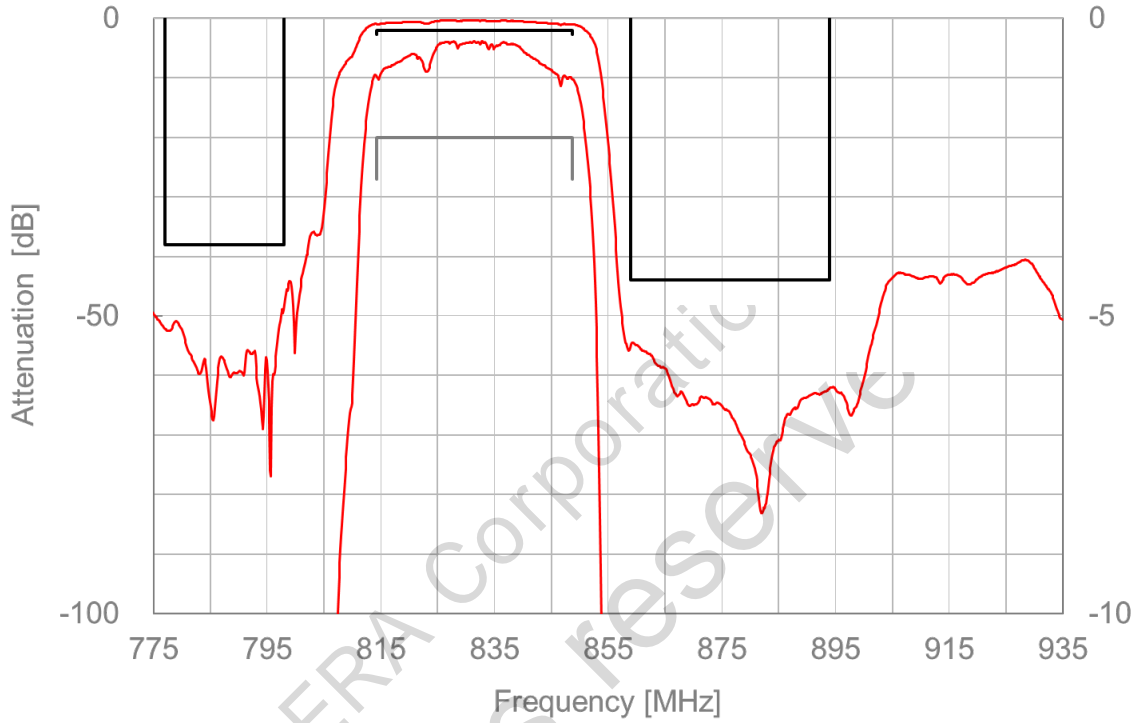


Electrical Characteristics

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	-		

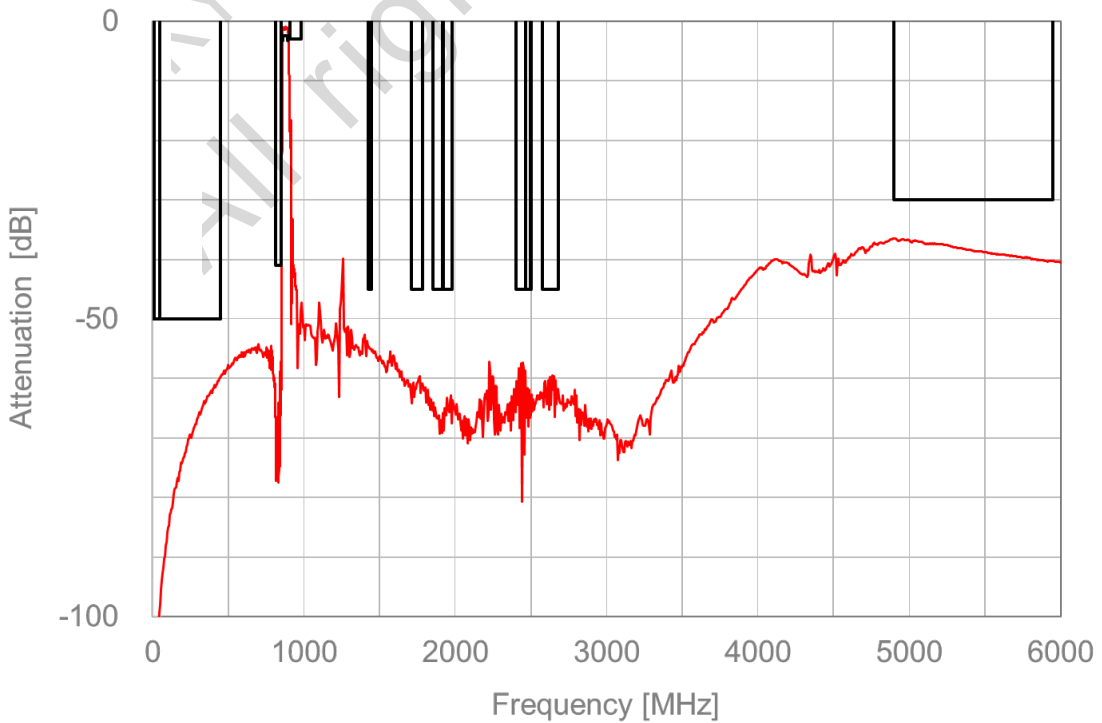
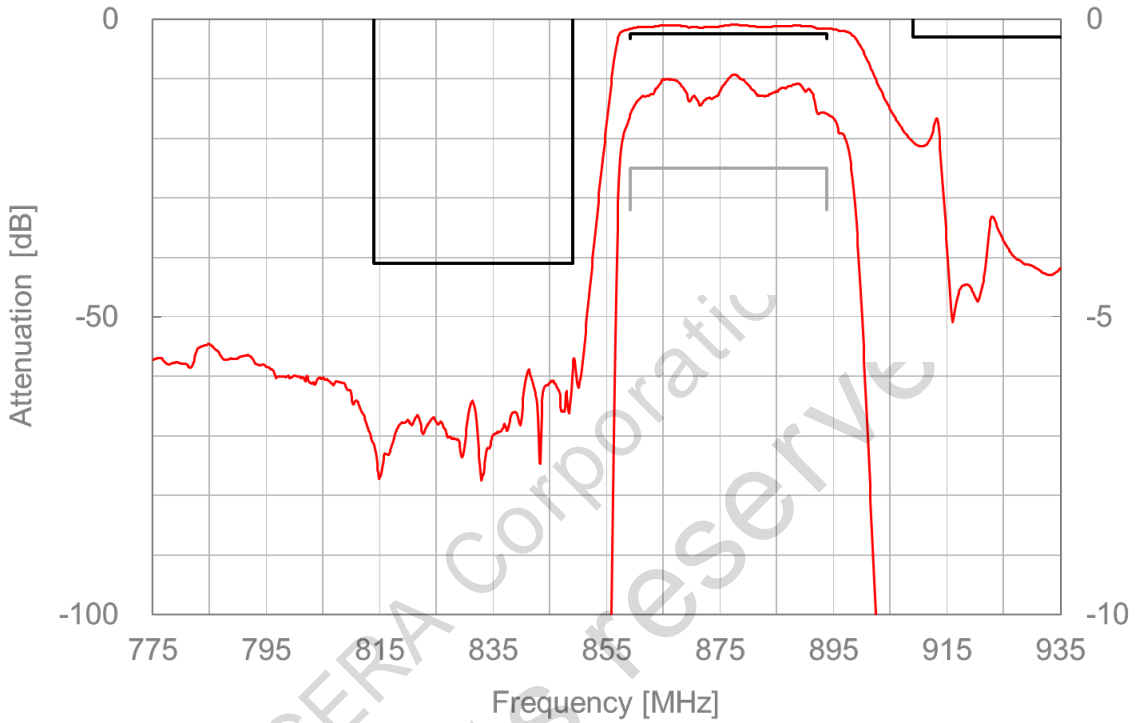
Electrical Characteristics

[Tx to Ant]



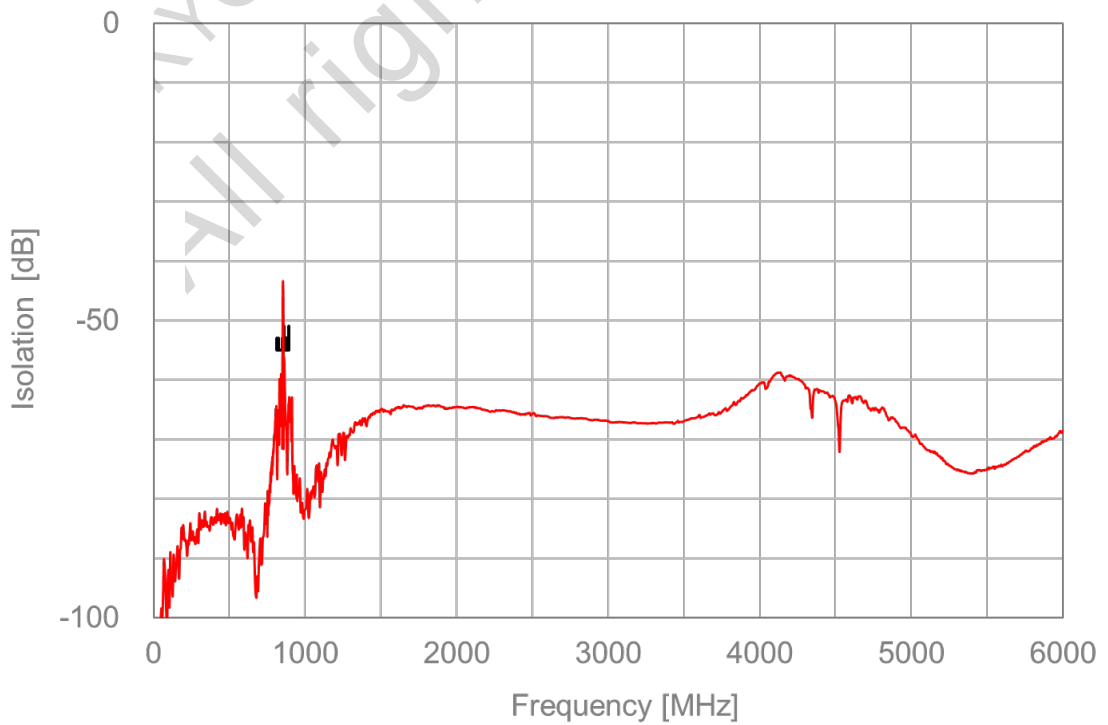
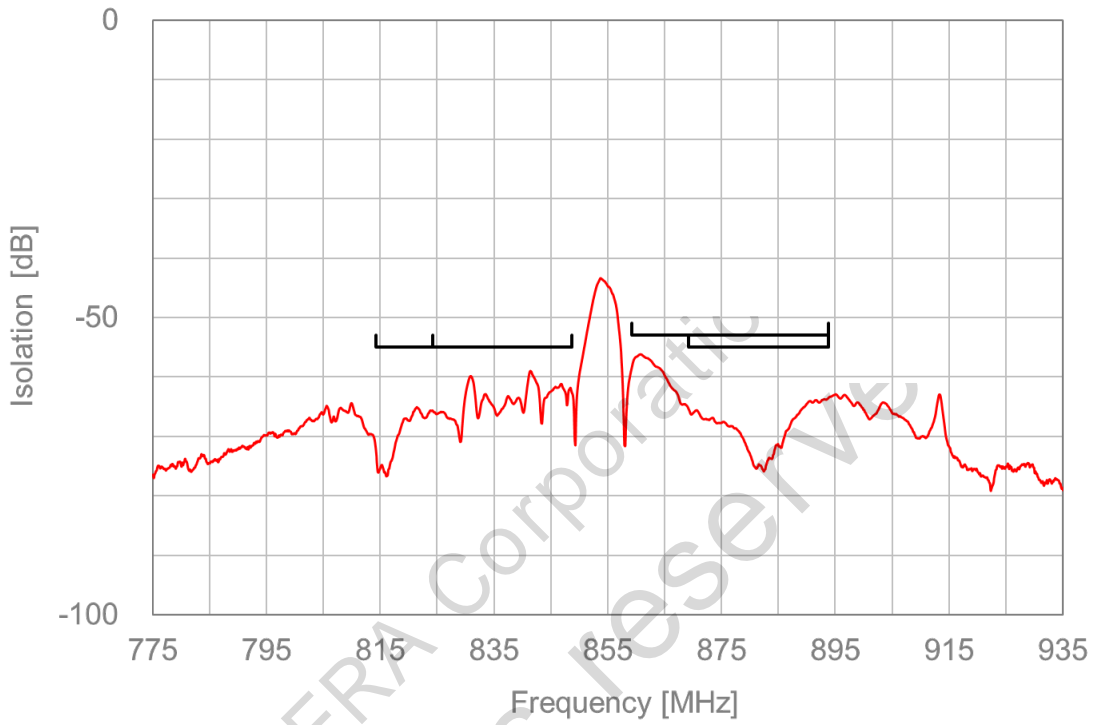
Electrical Characteristics

[Ant to Rx]

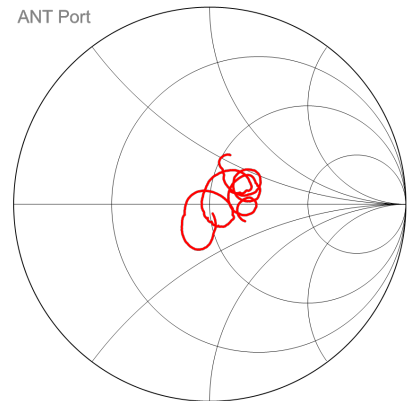
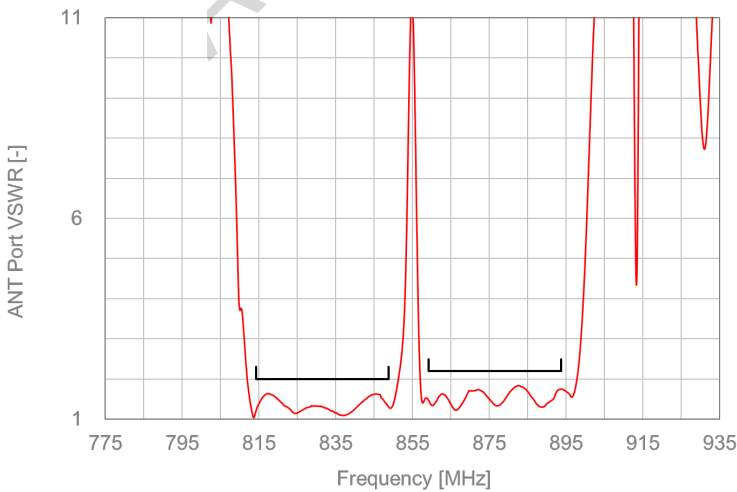
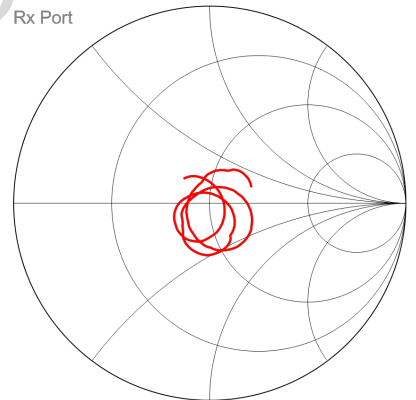
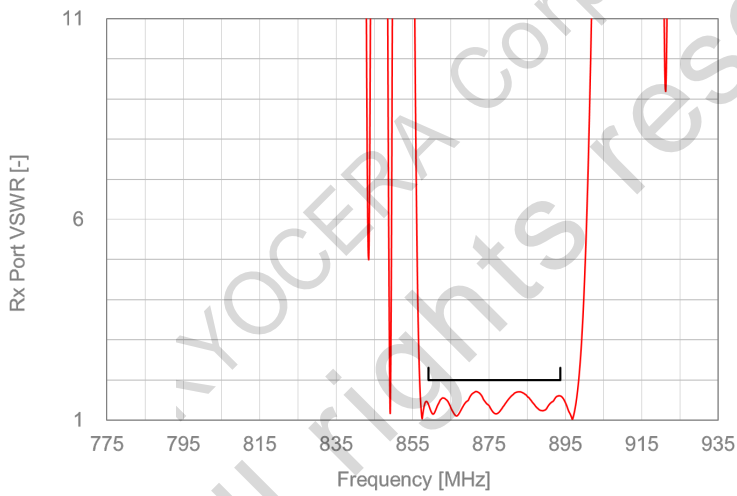
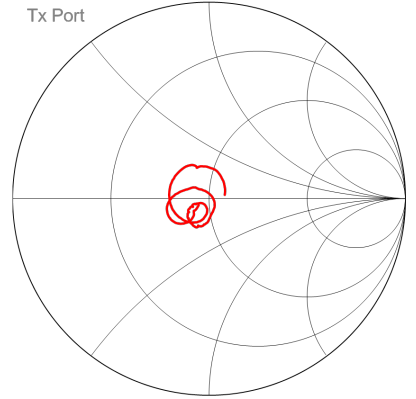
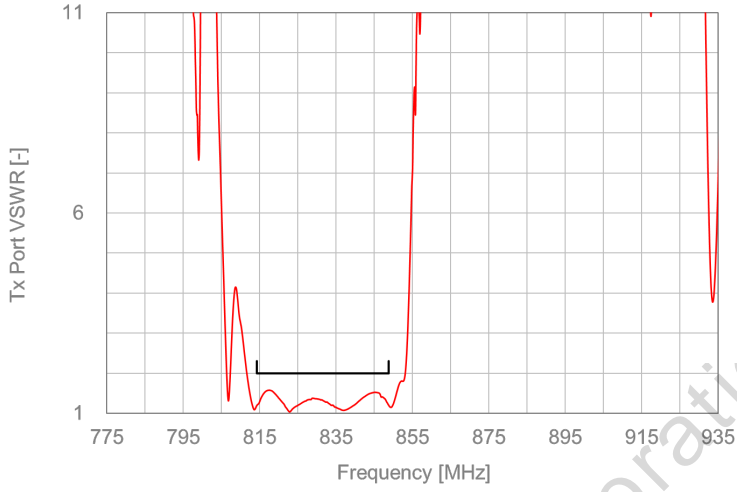


Electrical Characteristics

[Tx to Rx]

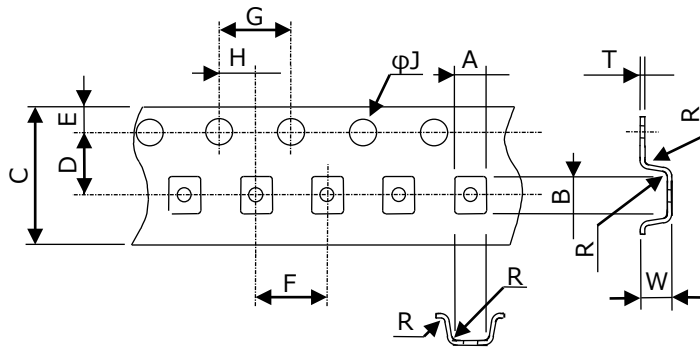


Electrical Characteristics



Tape & Reel Specification

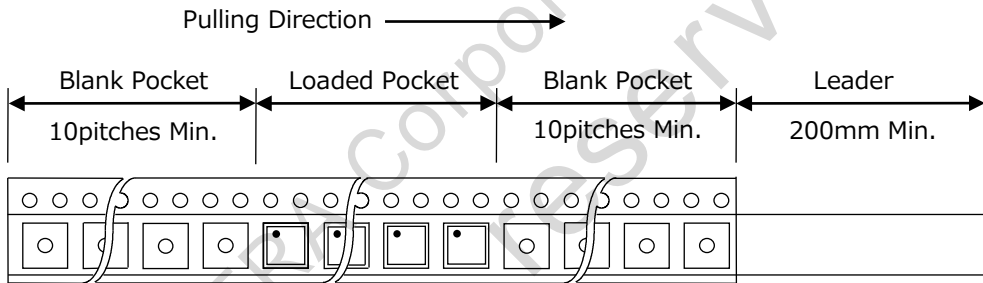
[Tape]



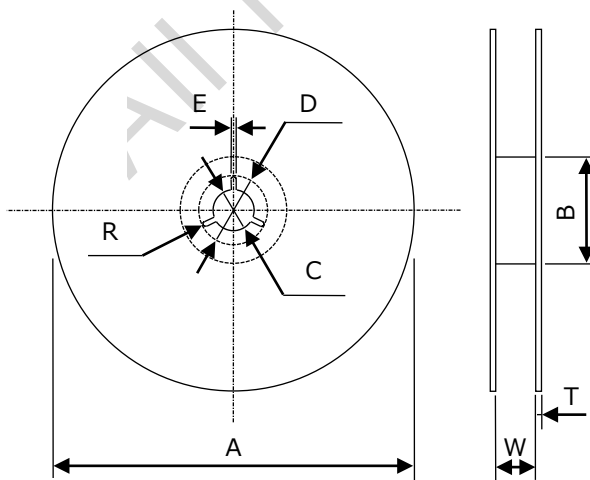
Unit : mm

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

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