

Datasheet of SAW Duplexer 1612 Band26 Unbalanced

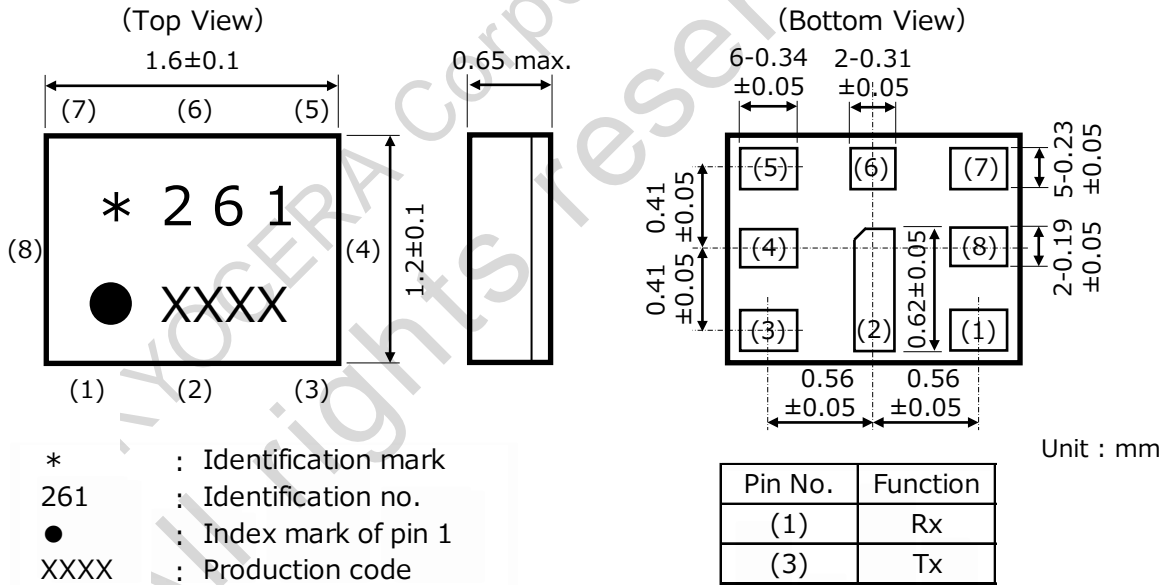
KYOCERA Part No. : SD16-0832R8UUA1

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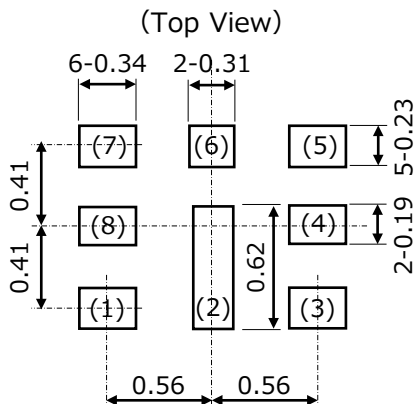
Rating

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

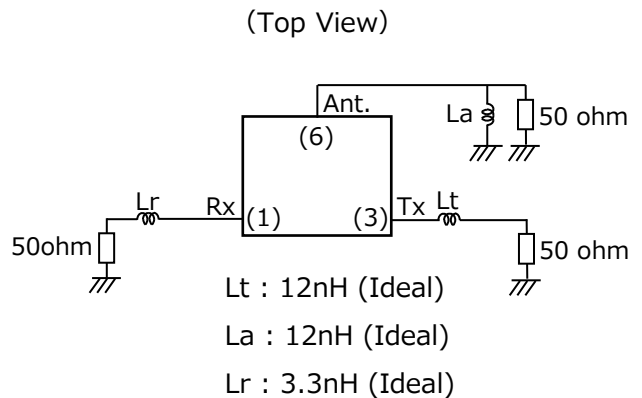
Dimensions



Recommendable Land Pattern



Measurement Circuit

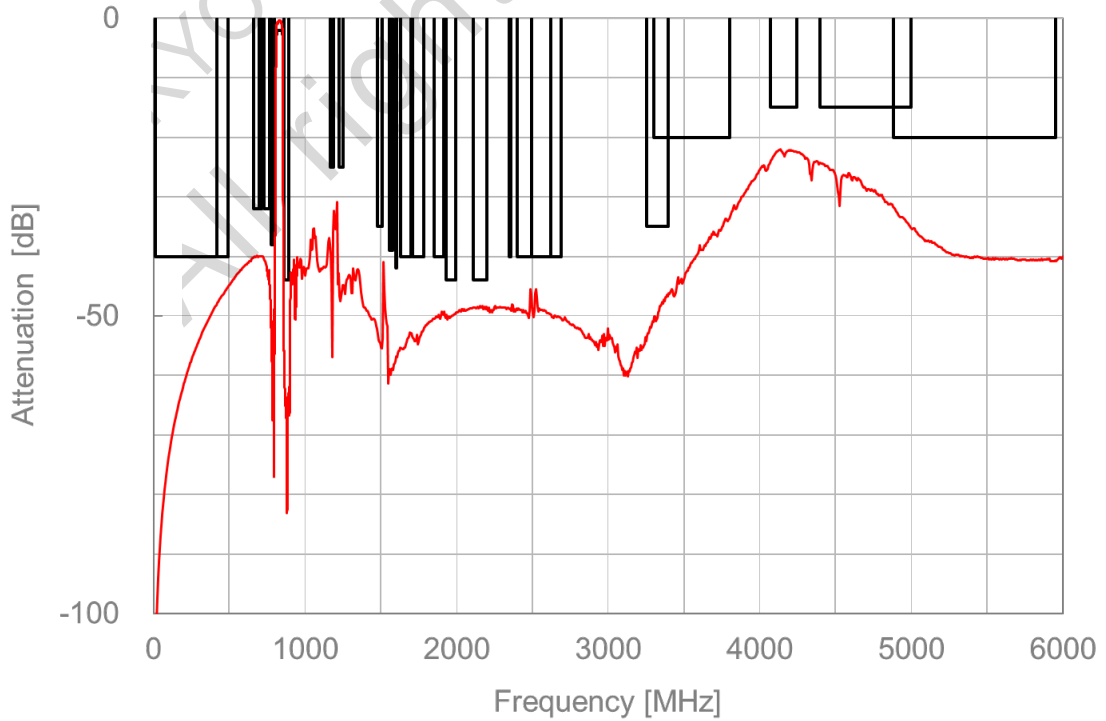
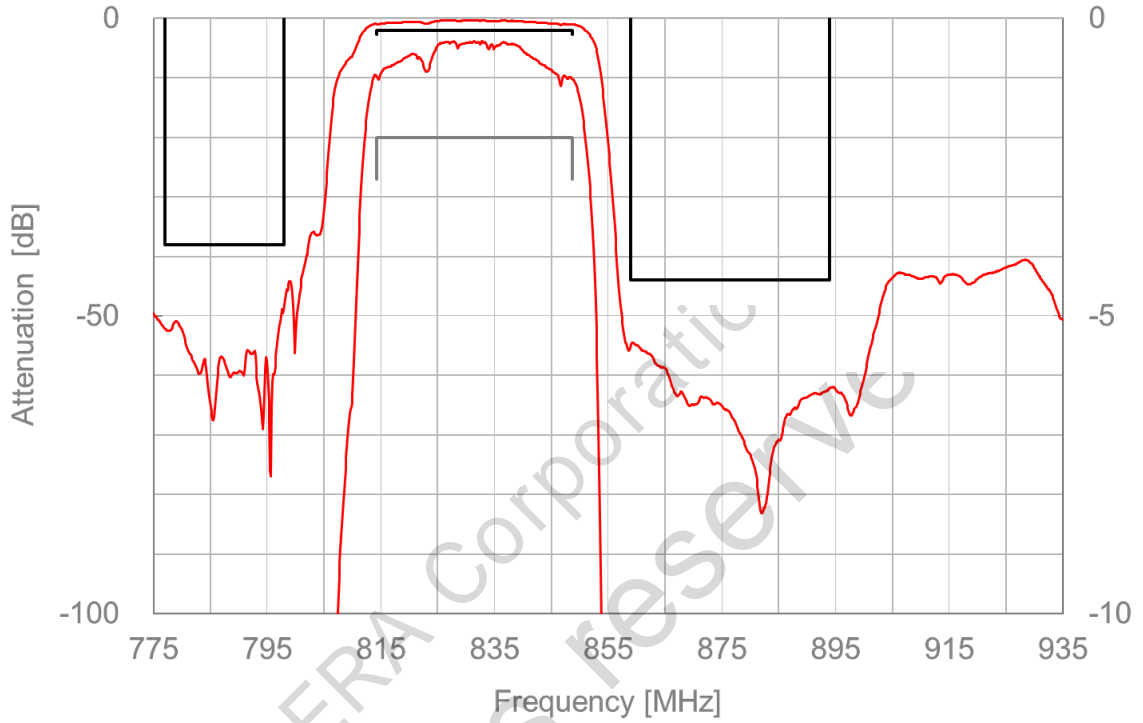


Electrical Characteristics

ITEMS		Frequency [MHz]	Unit	Specification			Notes	
				min.	typ.	max.		
Tx to Ant	Insertion Loss	814.24 to 848.76	dB	-	1.1	2.0		
	Passband Ripple	814.24 to 848.76	dB	-	0.8	2.0		
	VSWR	Ant	814.24 to 848.76	-	-	1.6	2.0	
		Tx	814.24 to 848.76	-	-	1.6	2.0	
	Attenuation	10 to 420	dB	40	48	-		
		420 to 494	dB	40	45	-		
		663 to 698	dB	32	40	-		
		699 to 716	dB	32	40	-		
		728 to 764	dB	32	40	-		
		777 to 798	dB	38	48	-		
		859 to 894	dB	44	55	-		
		1166 to 1187	dB	25	38	-		
		1225 to 1250	dB	25	43	-		
		1475.9 to 1510.9	dB	35	53	-		
		1559 to 1563	dB	39	59	-		
		1565.42 to 1573.37	dB	39	59	-		
		1573.37 to 1577.47	dB	39	59	-		
		1577.47 to 1585.42	dB	39	58	-		
		1597.55 to 1605.89	dB	42	57	-		
		1628 to 1698	dB	40	53	-		
		1710 to 1785	dB	40	52	-		
		1850 to 1915	dB	40	49	-		
		1930 to 1995	dB	44	50	-		
		2110 to 2200	dB	44	48	-		
	2350 to 2360	dB	40	49	-			
	2400 to 2690	dB	40	46	-			
	2402 to 2494	dB	40	46	-			
2620 to 2690	dB	40	50	-				
3256 to 3396	dB	35	46	-				
3300 to 3800	dB	20	34	-				
4070 to 4245	dB	15	22	-				
4400 to 5000	dB	15	24	-				
4884 to 5950	dB	20	32	-				
Ant to Rx	Insertion Loss	859.24 to 893.76	dB	-	1.6	2.5		
	Passband Ripple	859.24 to 893.76	dB	-	0.7	2.0		
	VSWR	Ant	859.24 to 893.76	-	-	1.8	2.2	
		Rx	859.24 to 893.76	-	-	1.7	2.0	
	Attenuation	10 to 447	dB	50	60	-		
		0.01 to 45	dB	50	98	-		
		814 to 849	dB	41	59	-		
		909 to 979	dB	3	17	-		
		1427 to 1447	dB	45	55	-		
		1710 to 1785	dB	45	60	-		
		1850 to 1915	dB	45	64	-		
1920 to 1980		dB	45	63	-			
2400 to 2500		dB	45	57	-			
2467 to 2494		dB	45	62	-			
2577 to 2682	dB	45	59	-				
4900 to 5950	dB	30	37	-				
Tx to Rx	Isolation	814.24 to 848.76	dB	55	59	-		
		824.24 to 848.76	dB	55	59	-		
		859.24 to 893.76	dB	53	56	-		
		869.24 to 893.76	dB	55	63	-		

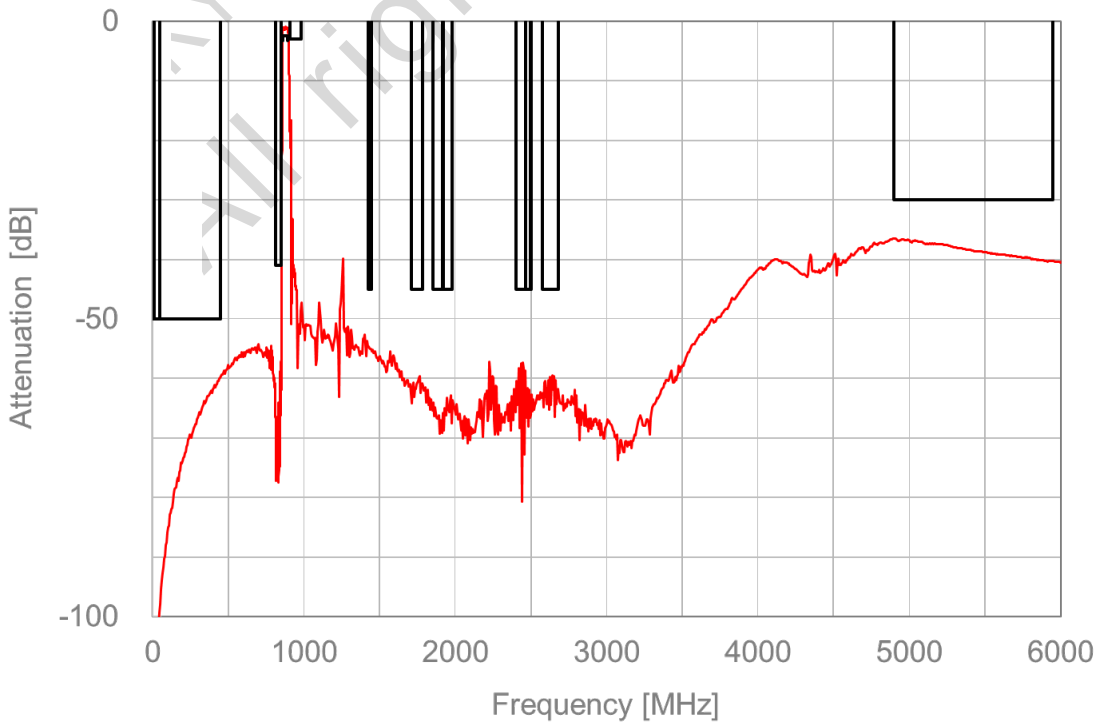
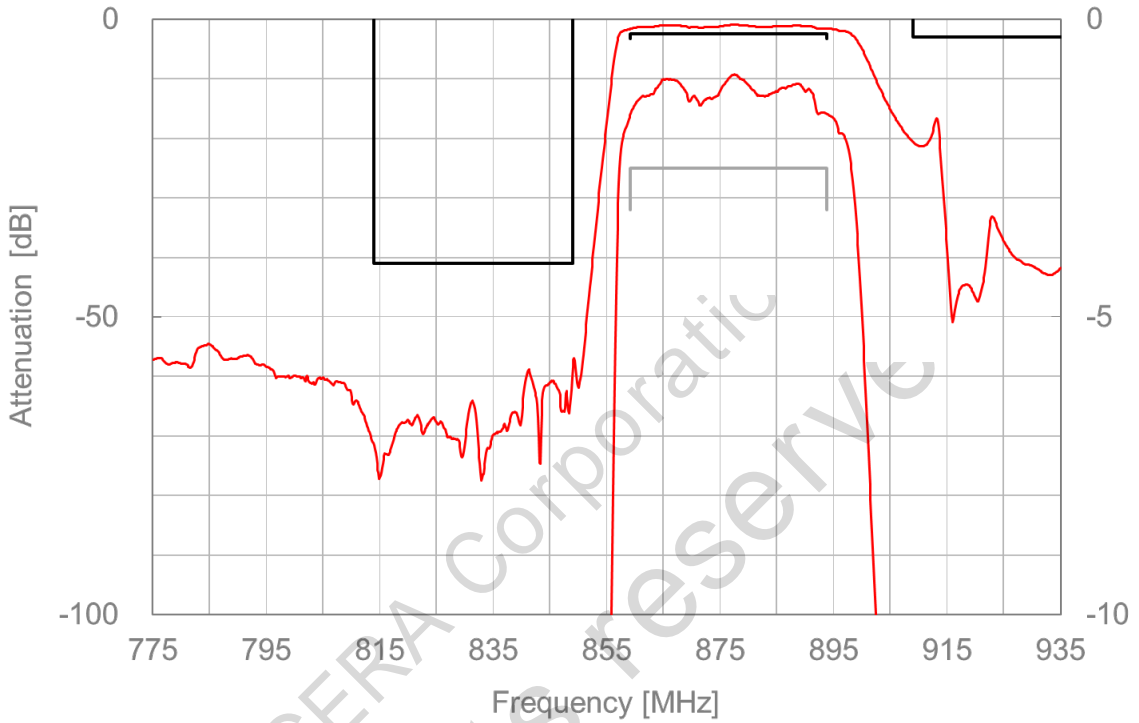
Electrical Characteristics

[Tx to Ant]



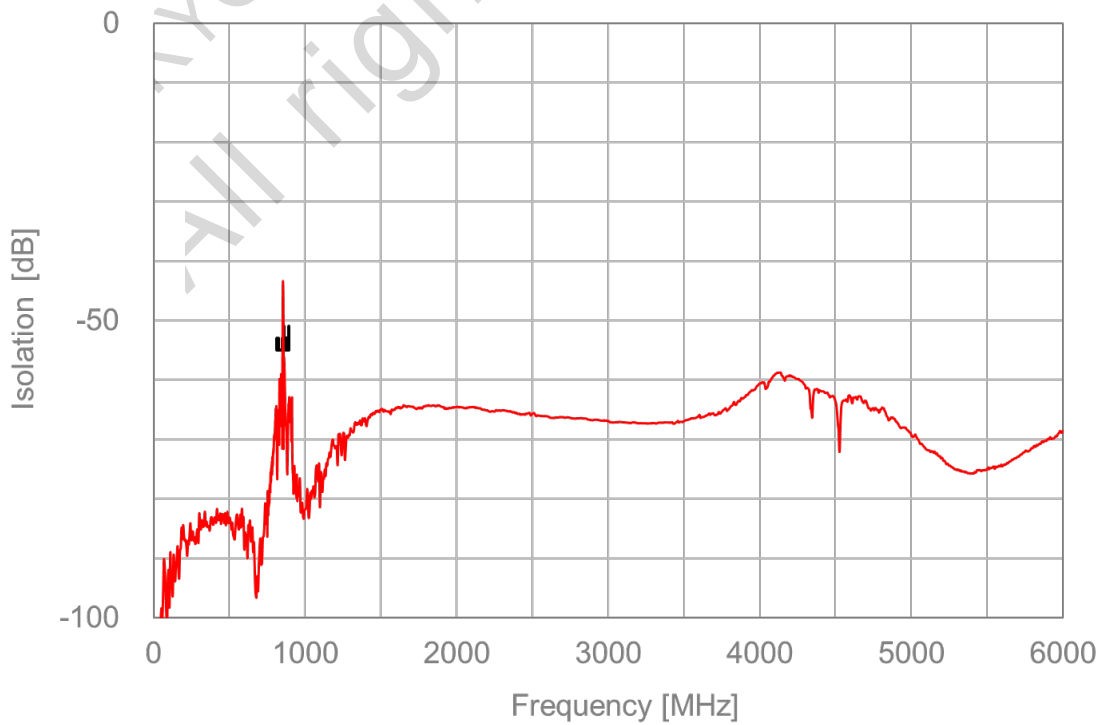
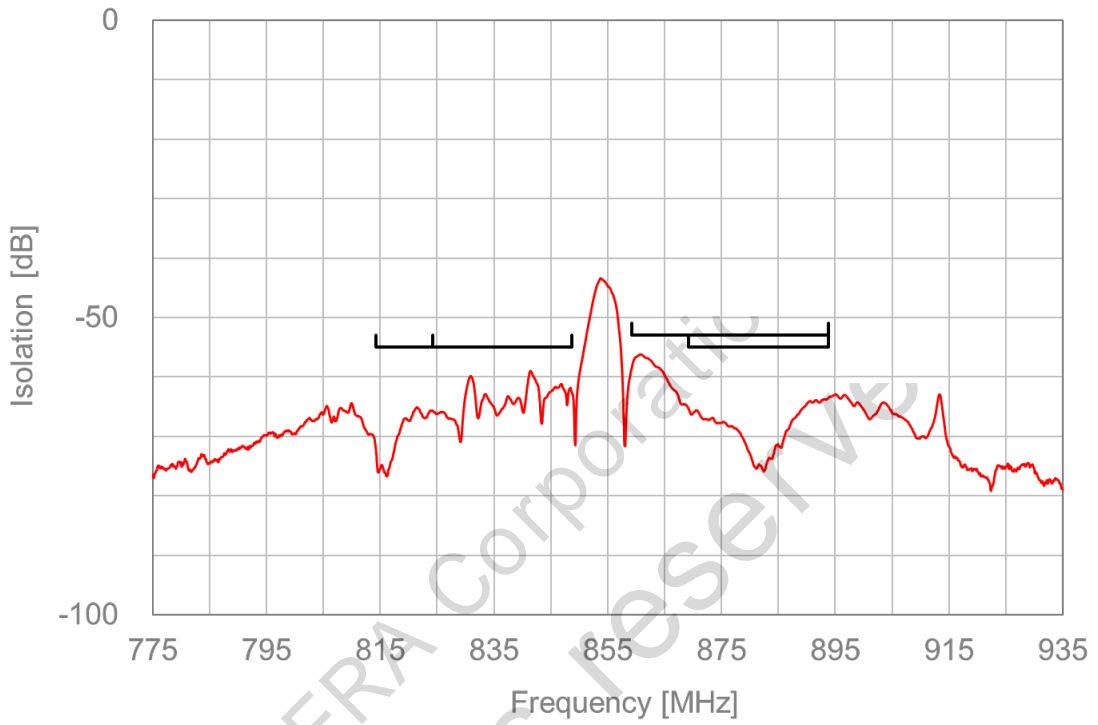
Electrical Characteristics

[Ant to Rx]

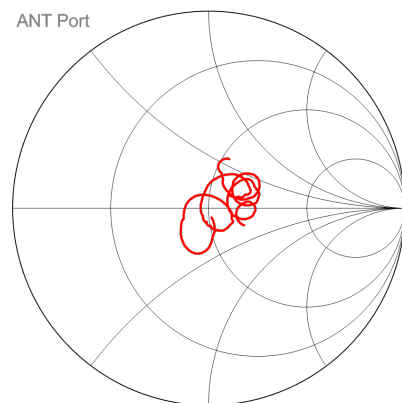
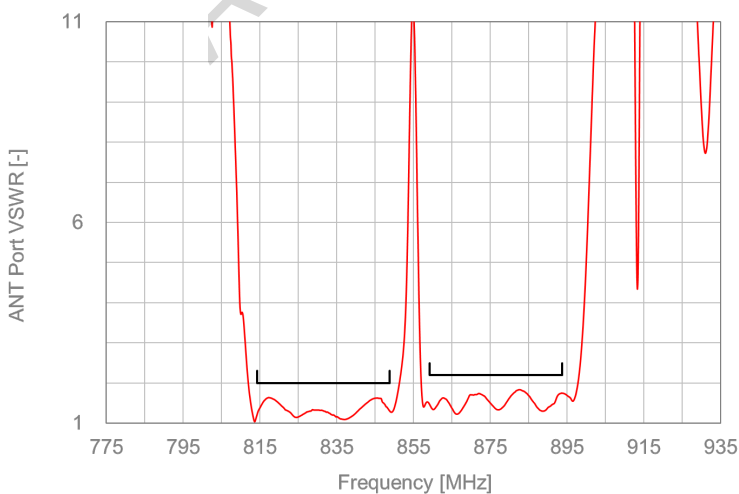
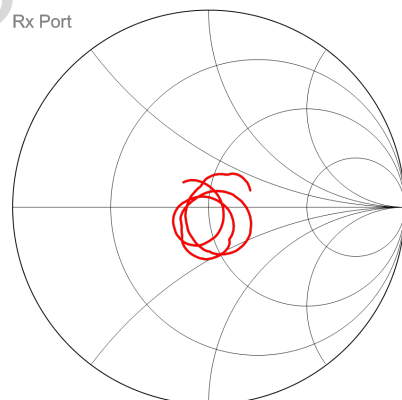
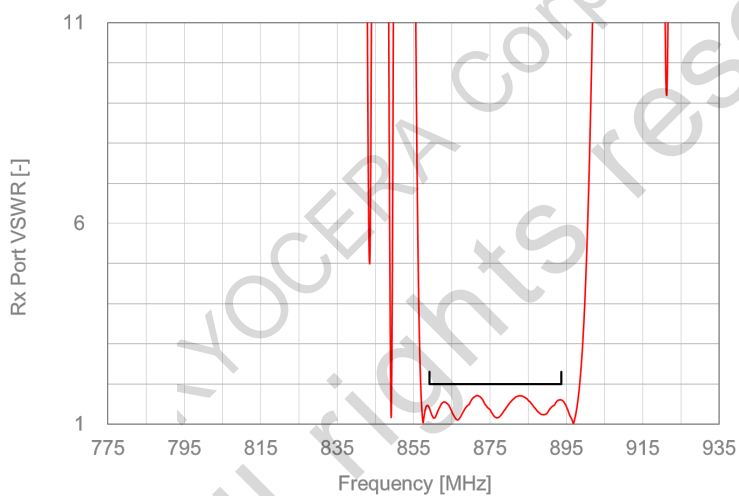
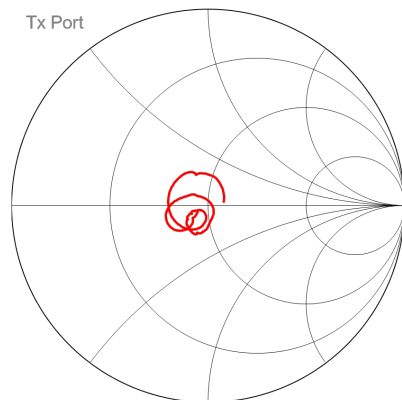
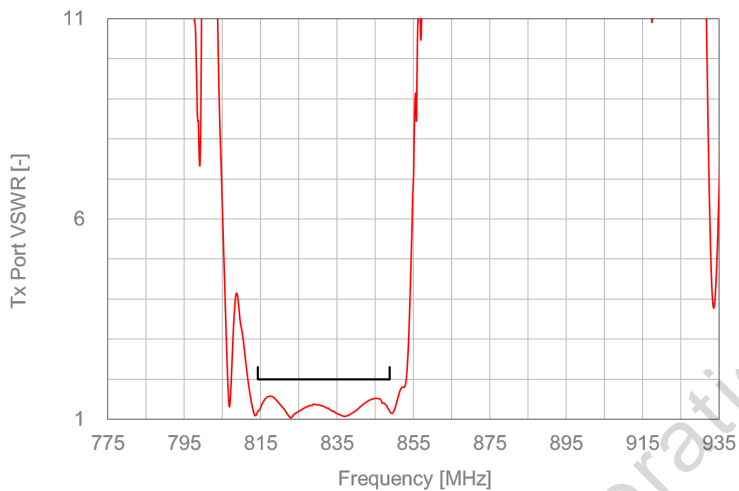


Electrical Characteristics

[Tx to Rx]

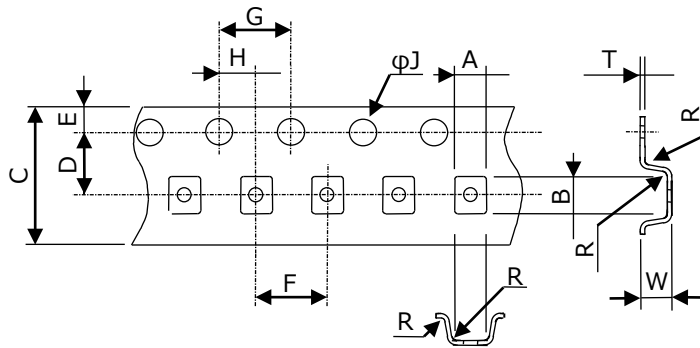


Electrical Characteristics



Tape & Reel Specification

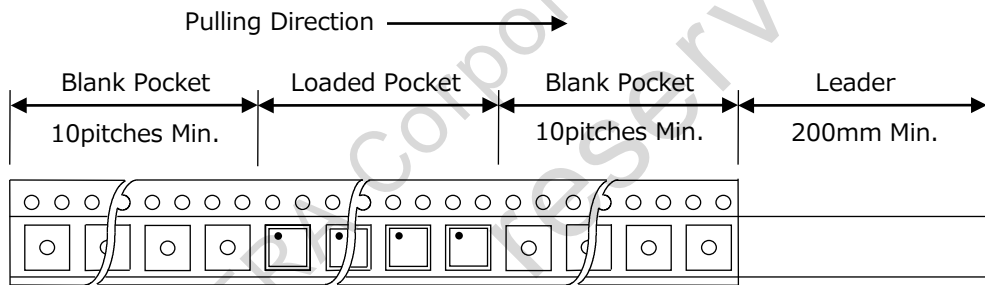
[Tape]



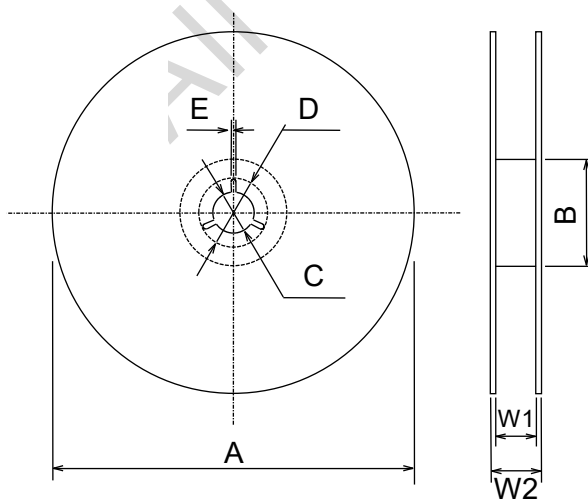
Unit : mm

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	Dimensions
A	330 ± 2
B	100 ± 1
C	13 ± 0.2
D	21 ± 0.8
E	2 ± 0.5
W1	9.5 ± 1.0
W2	13.5 ± 1.0

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