

Datasheet of SAW Duplexer 1814 Band66(4) Unbalanced

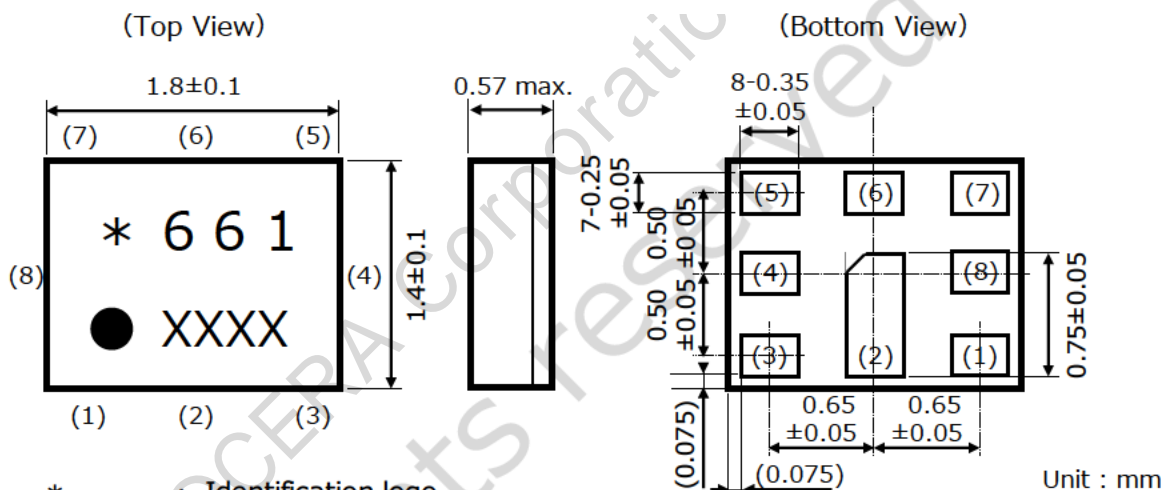
KYOCERA Part No. : SD18 1745R8UUB1

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Rating

Items	Rating	Unit	Note
Operating Temperature Range	-20 to +85	deg.C	
Storage Temperature Range	-40 to +85	deg.C	
Max Input Power (Tx port)	+30.5	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50+3.9nH//0.4pF	ohm	Unbalance
Ant. Port Nominal Impedance	50//3.6nH	ohm	Unbalance
Rx Port Nominal Impedance	50+1.5nH	ohm	Unbalance

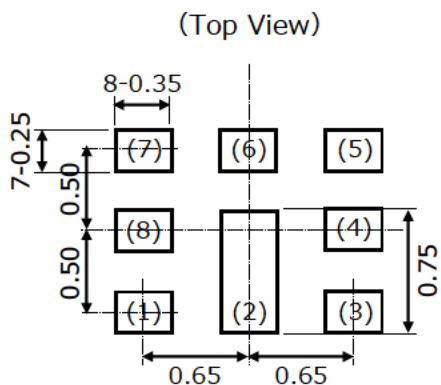
Dimensions



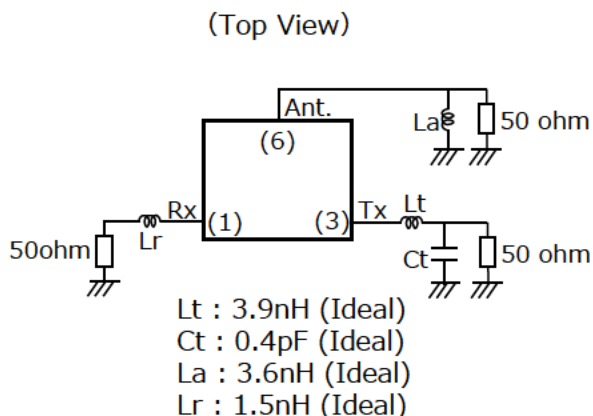
- * : Identification logo
- 661 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit

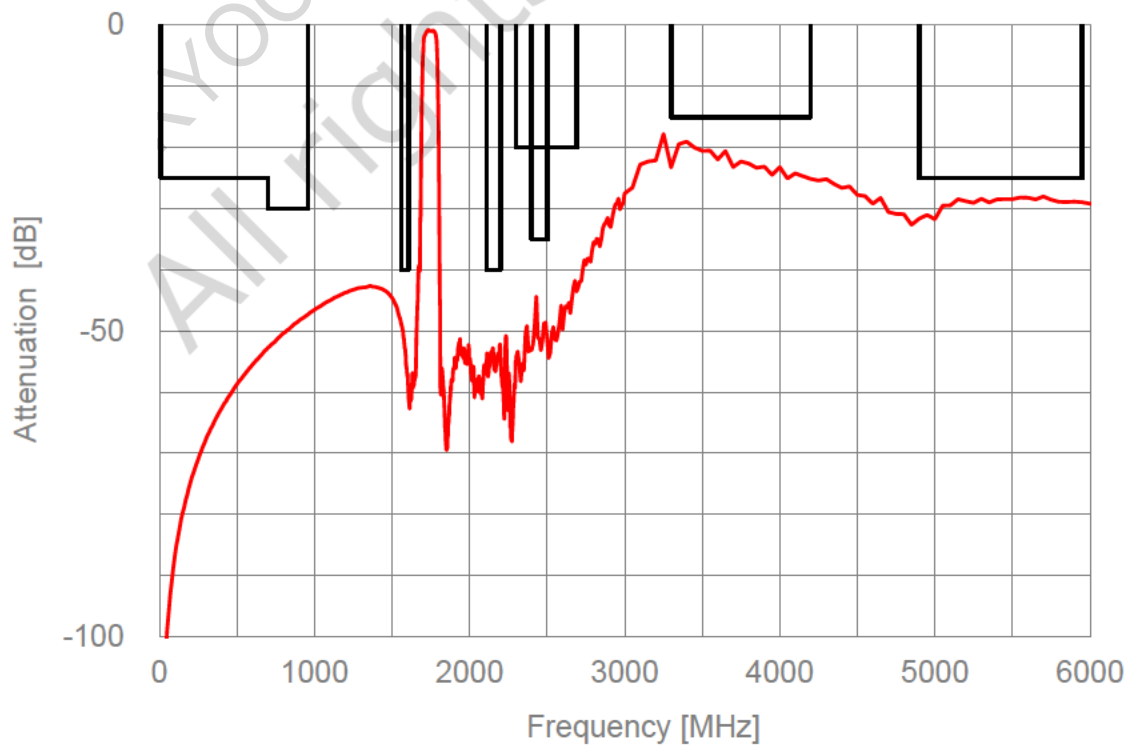
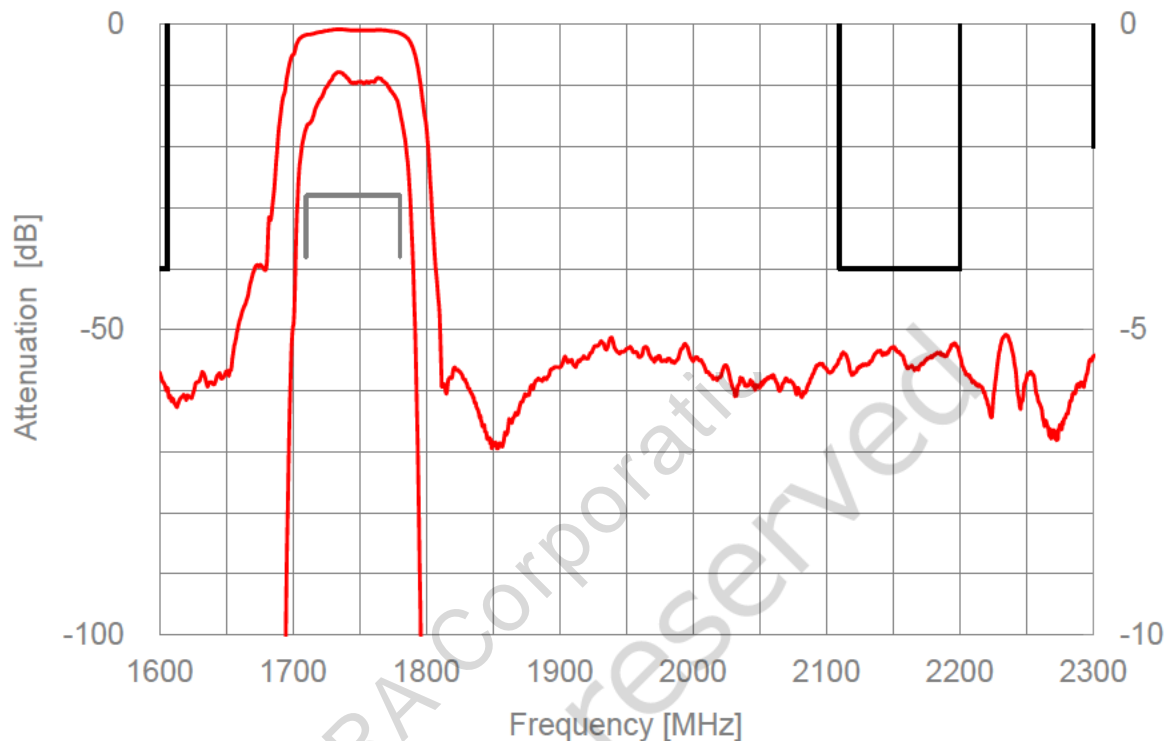


Electrical Characteristics

Items		Frequency Range (MHz)	Characteristics			Unit	Note	
			Min.	Typ.	Max.			
Tx to Ant	Insertion Loss	1710 - 1780	-	1.7	2.8	dB		
	Ripple@20MHz	1710 - 1780	-	0.9	1.9	dB		
	VSWR	Tx	1710 - 1780	-	1.5	2.0	-	
		Ant	1710 - 1780	-	1.6	2.0	-	
	Attenuation	10 - 699	25	53	-	dB		
		699 - 960	30	47	-	dB		
		1559 - 1606	40	49	-	dB		
		2110 - 2200	40	52	-	dB		
		2400 - 2500	35	44	-	dB		
		2300 - 2690	20	42	-	dB		
3300 - 4200		15	19	-	dB			
4900 - 5950	25	28	-	dB				
Ant to Rx	Insertion Loss	2110 - 2200	-	1.8	2.9	dB		
	Ripple@20MHz	2110 - 2200	-	0.5	1.7	dB		
	VSWR	Rx	2110 - 2200	-	1.6	2.0	-	
		Ant	2110 - 2200	-	1.7	2.1	-	
	Attenuation	10 - 699	40	54	-	dB		
		699 - 849	40	51	-	dB		
		1710 - 1780	45	52	-	dB		
		1850 - 1915	39	44	-	dB		
		2305 - 2315	30	39	-	dB		
		2400 - 2500	30	34	-	dB		
2300 - 2690		30	34	-	dB			
4900 - 5950		10	16	-	dB			
Tx to Rx	Isolation	1710 - 1780	55	63	-	dB	Tx	
		2110 - 2200	50	55	-	dB	Rx	

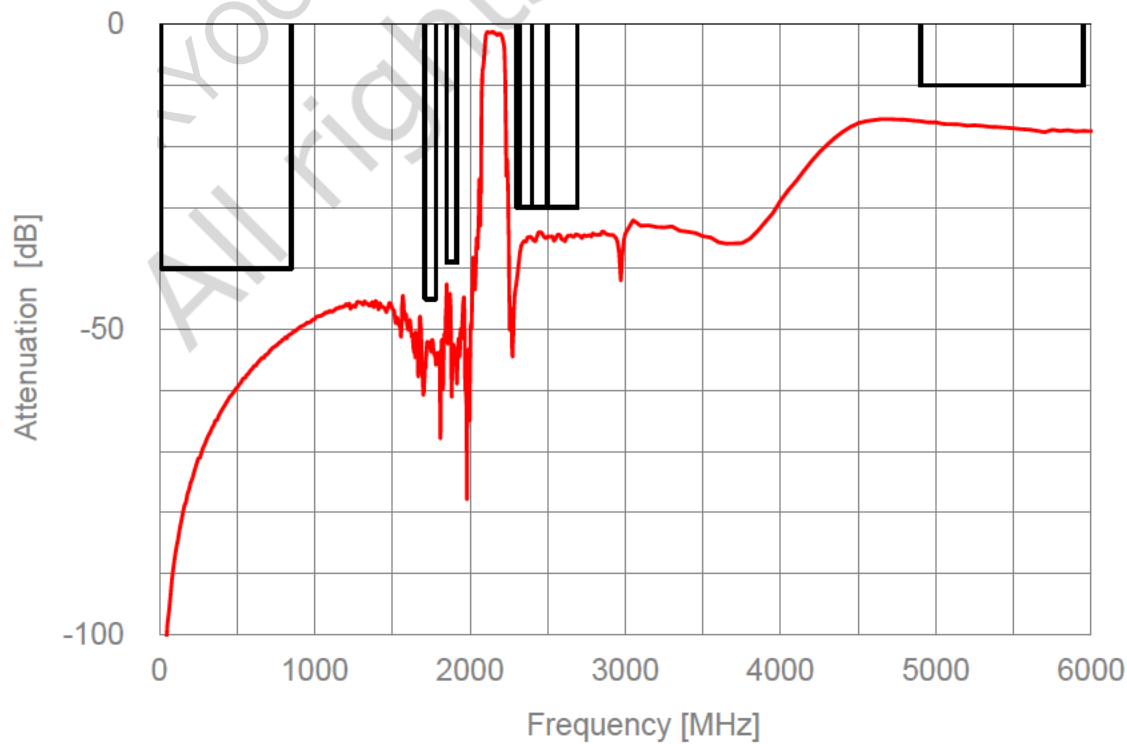
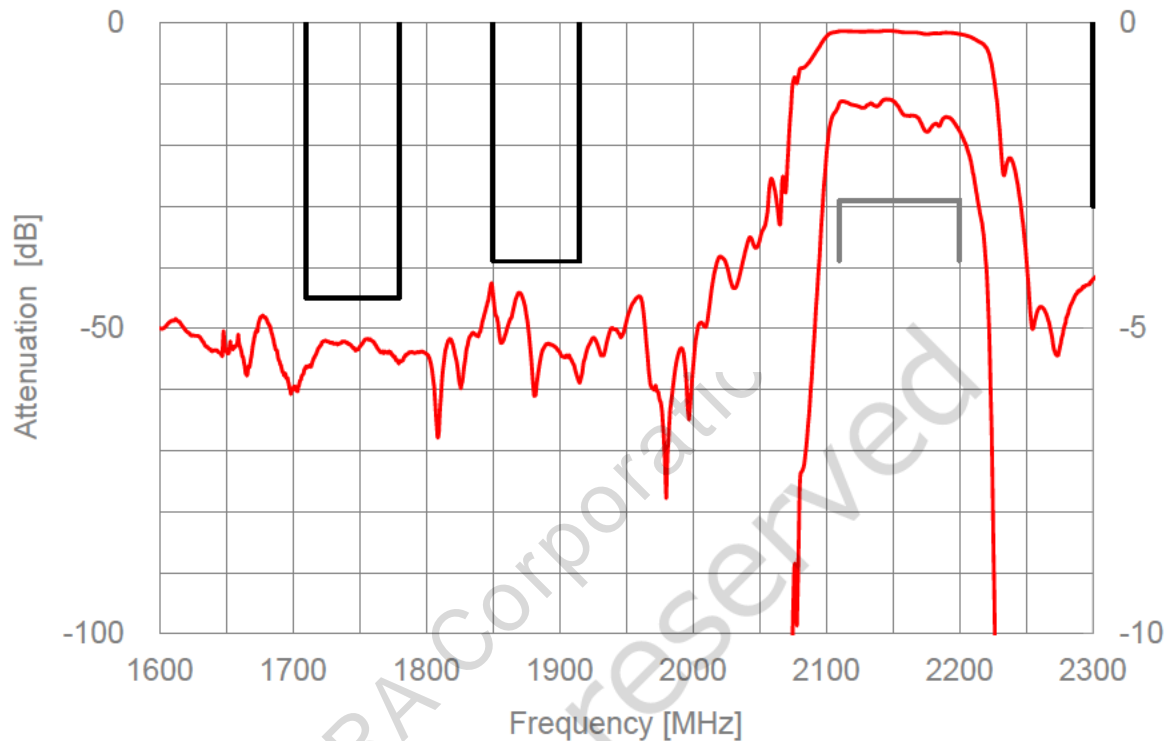
Electrical Characteristics

[Tx to Ant]



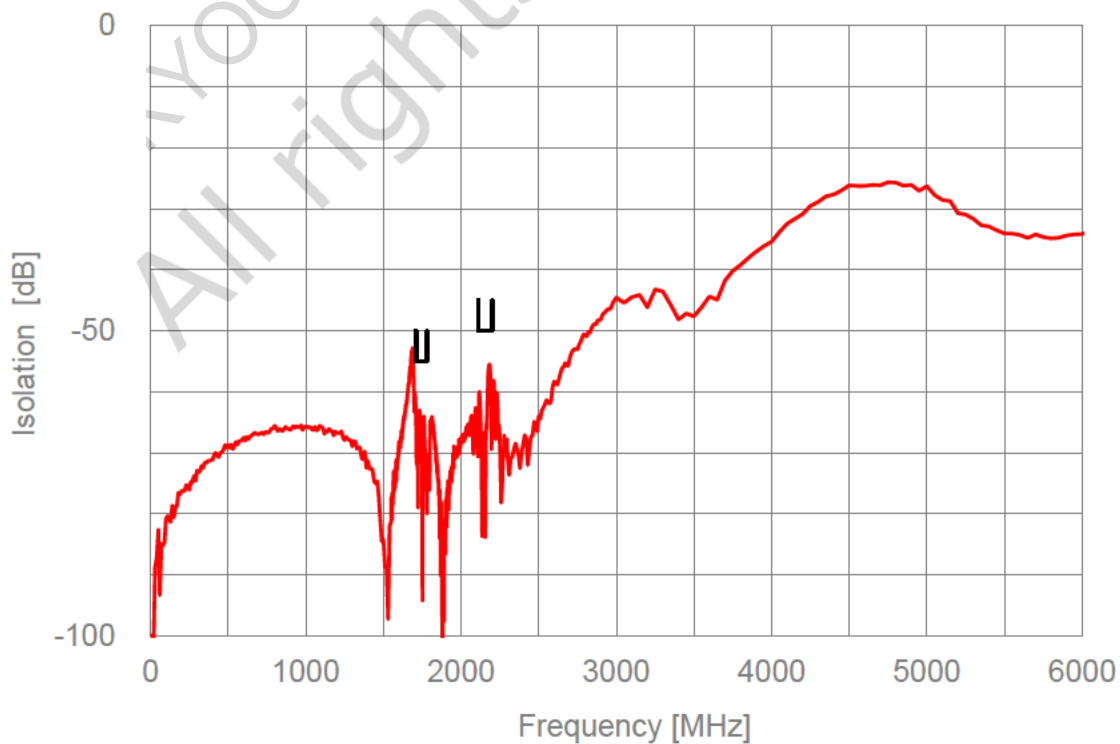
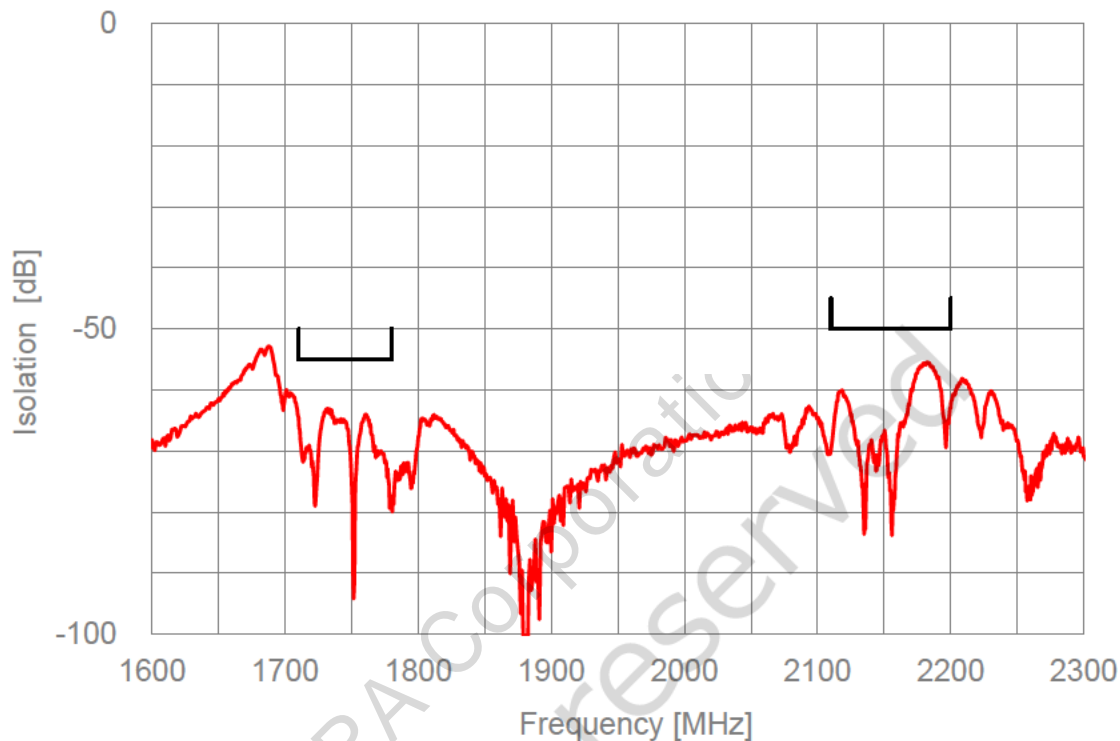
Electrical Characteristics

[Ant to Rx]

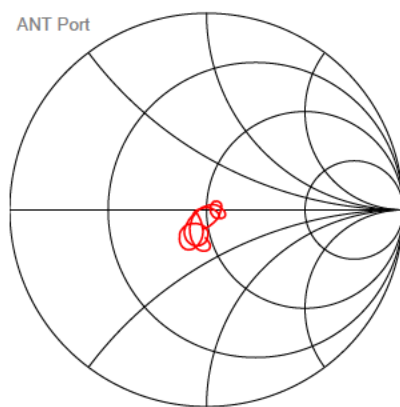
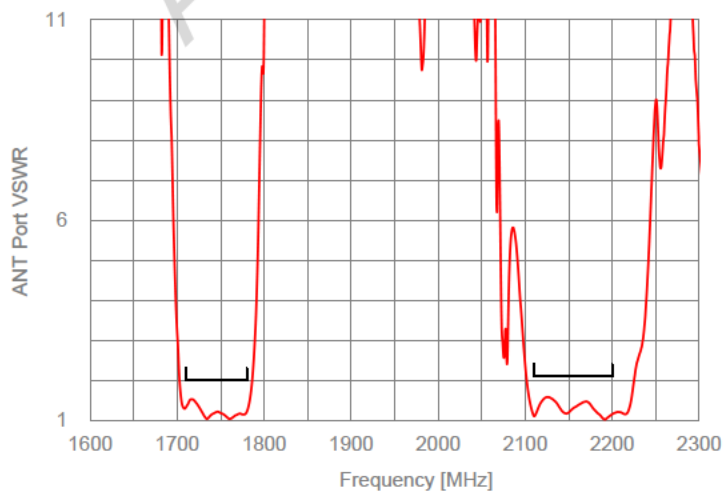
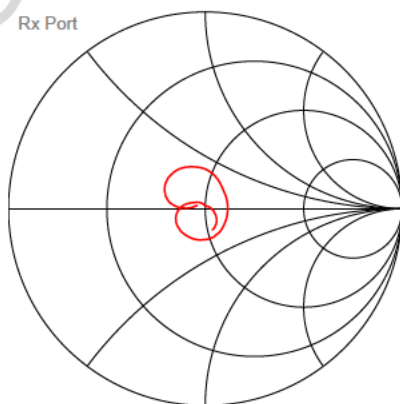
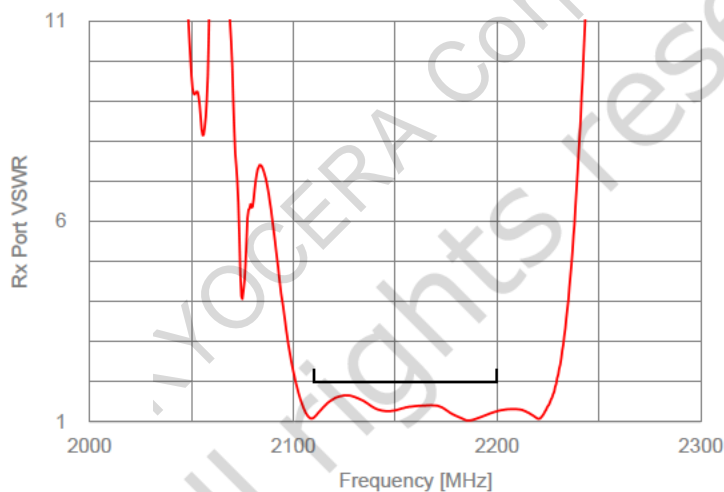
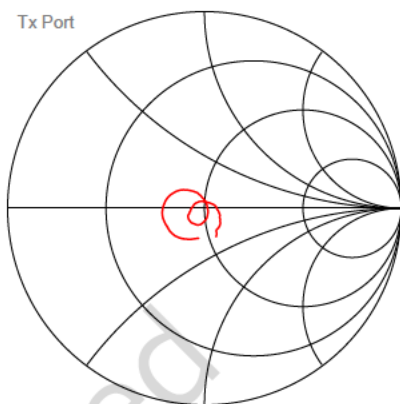
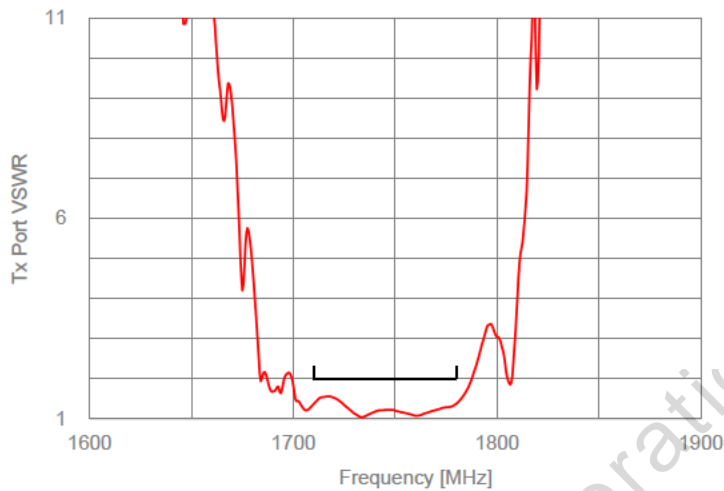


Electrical Characteristics

[Tx to Rx]

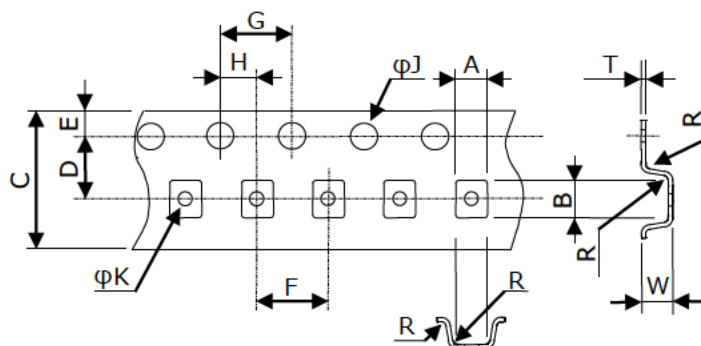


Electrical Characteristics



Tape & Reel Specification

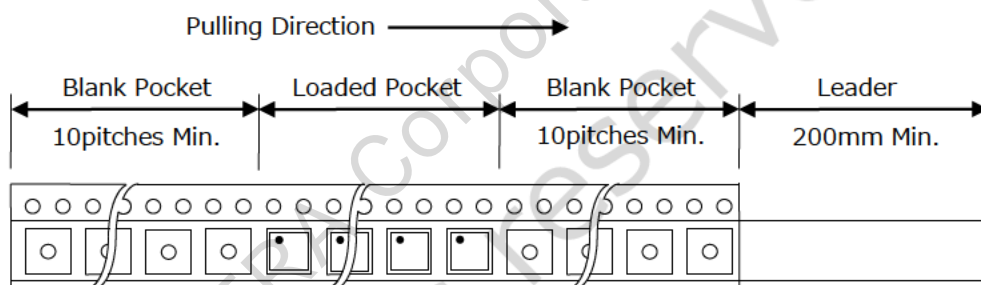
[Tape]



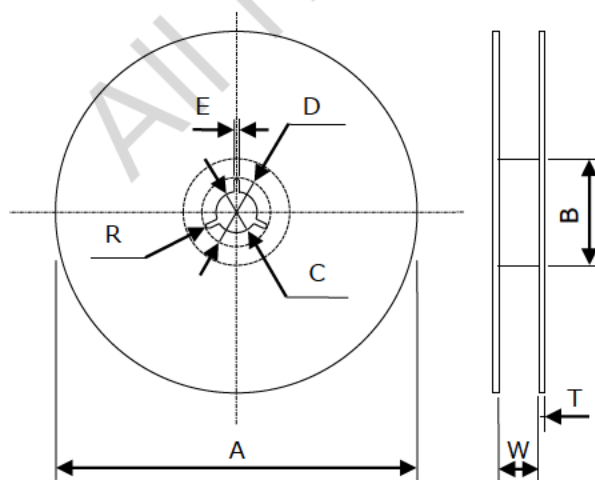
Unit : mm

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

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