

Datasheet of SAW Duplexer 1814 Band13 Unbalanced

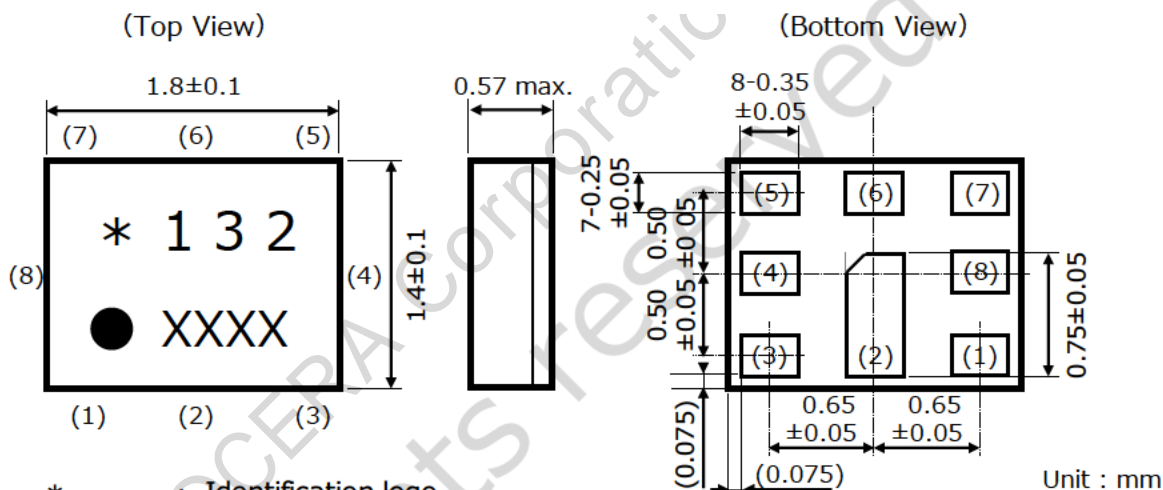
KYOCERA Part No. : SD18 0782R8UUD1

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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 port)	+29	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50	ohm	Unbalance
Ant. Port Nominal Impedance	50+12nH//2.7pF	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

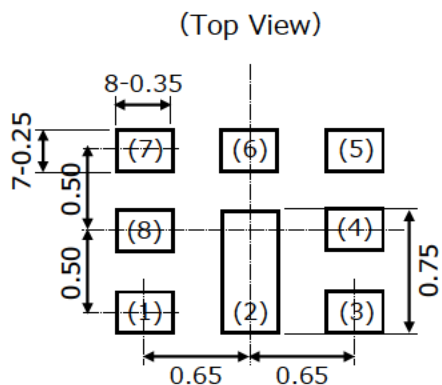
Dimensions



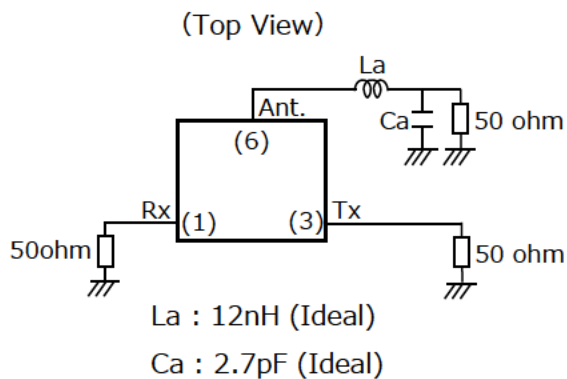
- * : Identification logo
- 132 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit



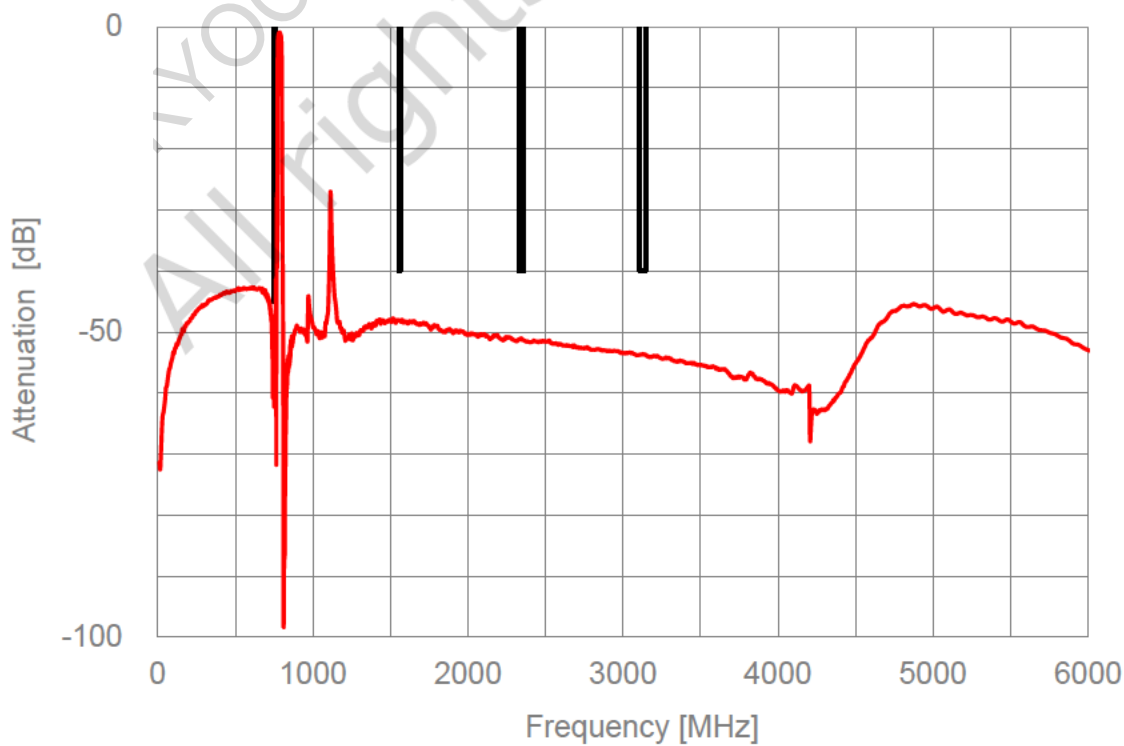
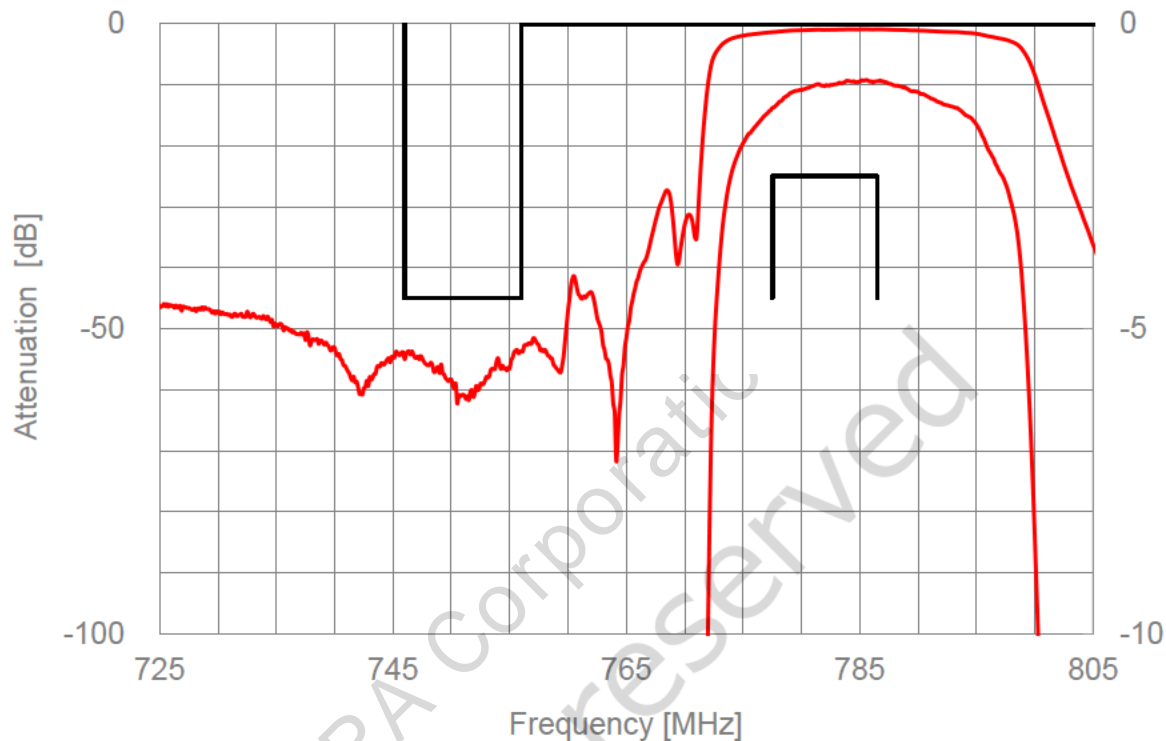
Electrical Characteristics

Items		Frequency (MHz)		Characteristics			Unit	Note	
				min.	typ.	max.			
Tx to Ant	Nominal Center Frequency		-		782			MHz	
	Insertion Loss		777.5	to 786.5	-	1.4	2.5	dB	
	VSWR	Tx	777.5	to 786.5	-	1.6	2.1	-	
		Ant	777.5	to 786.5	-	1.6	2.1	-	
	Attenuation		746	- 756	45	52	-	dB	
			1554	- 1565	40	48	-	dB	
2331			- 2361	40	51	-	dB	3f0	
3108			- 3148	40	54	-	dB	4f0	
Ant to Rx	Nominal Center Frequency		-		751			MHz	
	Insertion Loss		746	- 756	-	1.5	2.5	dB	
	VSWR	Ant	746	- 756	-	1.5	2.1	-	
		Rx	746	- 756	-	1.6	2.	-	
	Attenuation		777	- 787	50	56	-	dB	
			2400	- 2500	50	62	-	dB	
4900			- 5950	50	59	-	dB		
TX to RX	Isolation		746	- 756	50	54	-	dB	
			777	- 787	55	58	-	dB	

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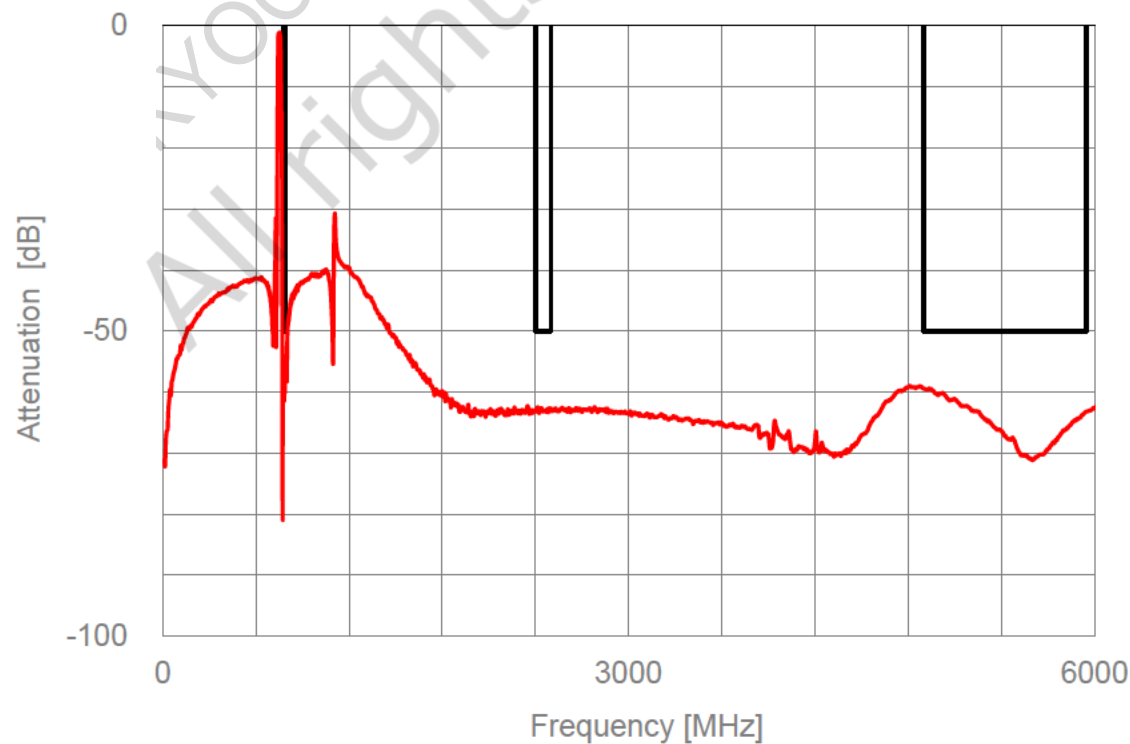
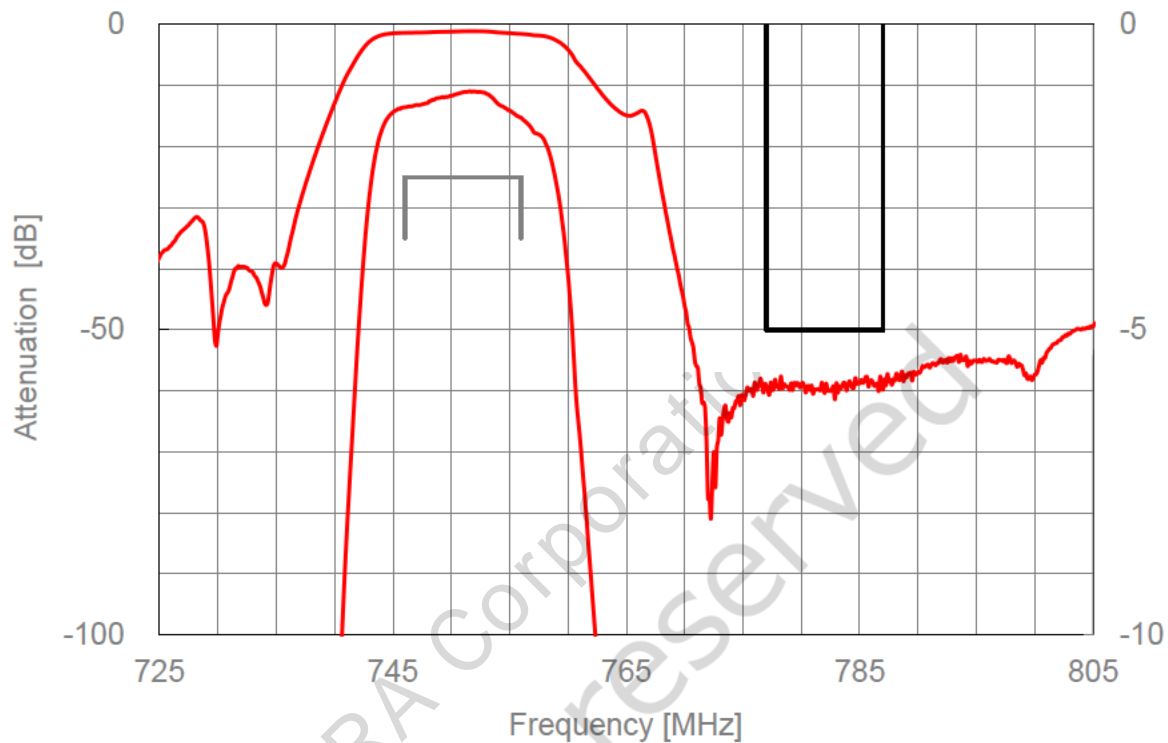
Electrical Characteristics

[Tx to Ant]



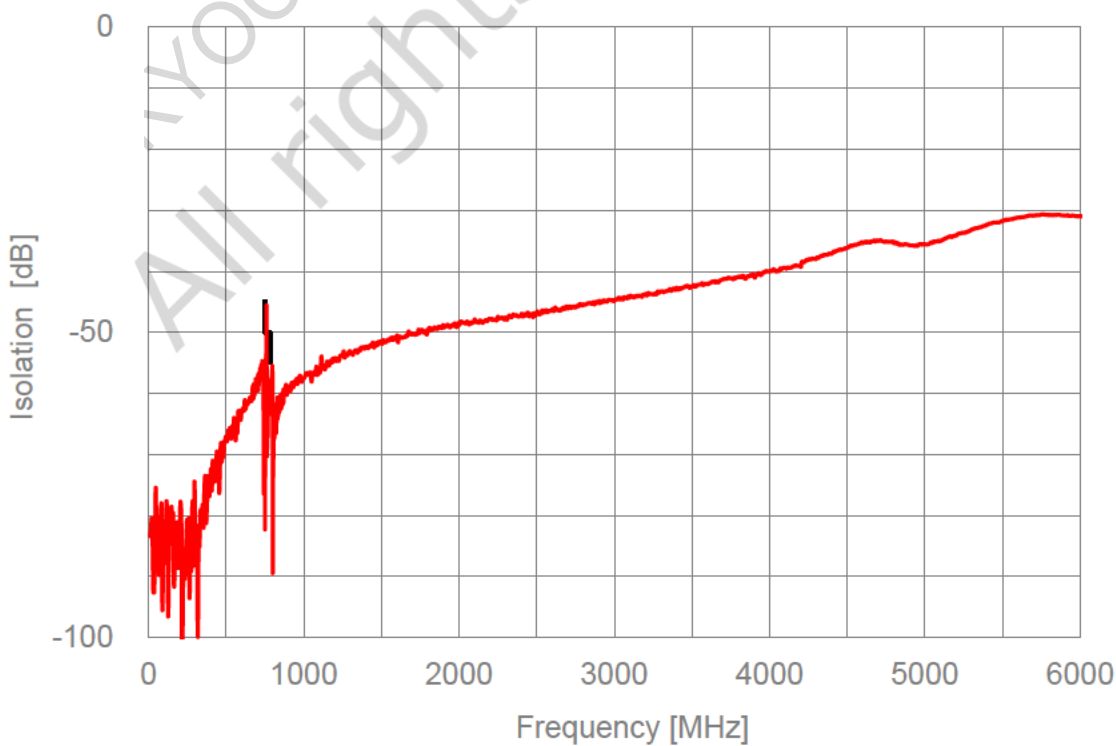
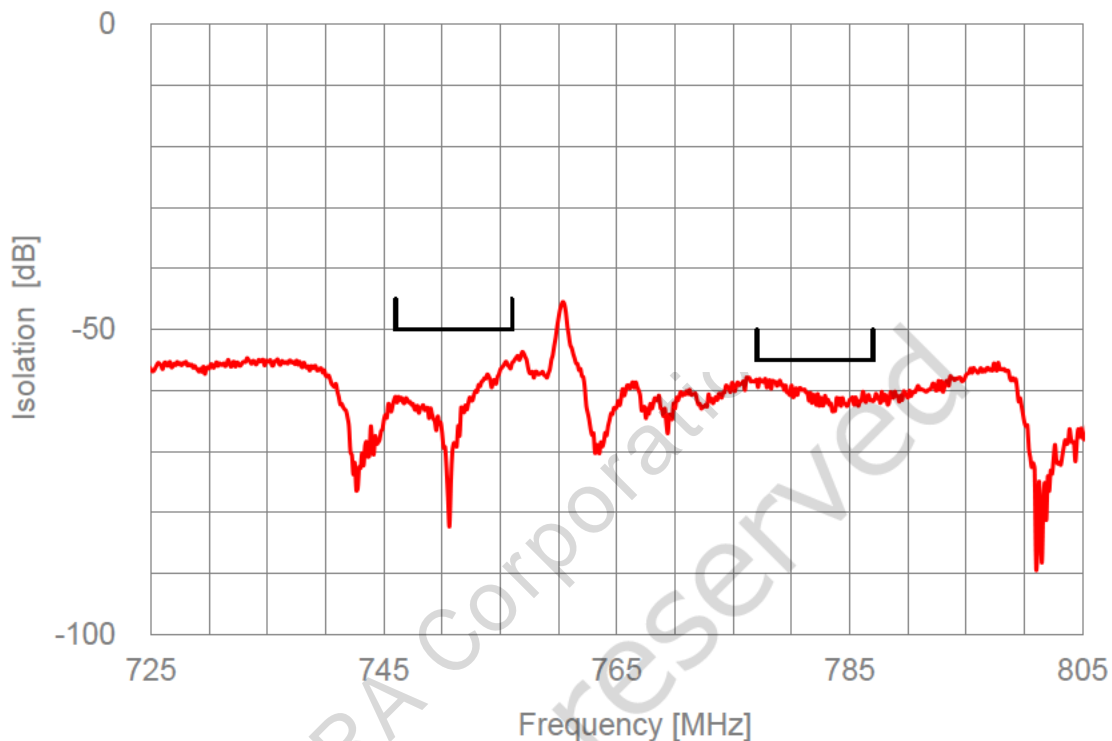
Electrical Characteristics

[Ant to Rx]

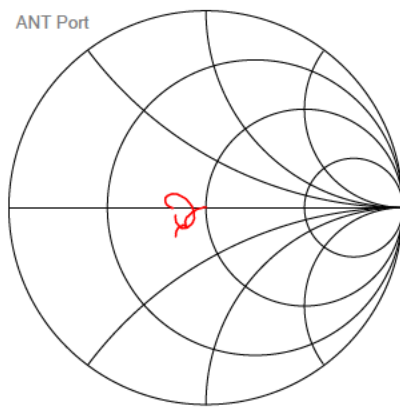
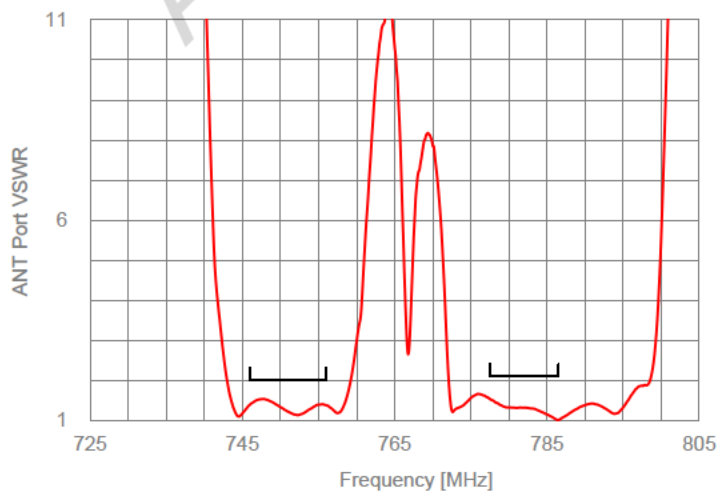
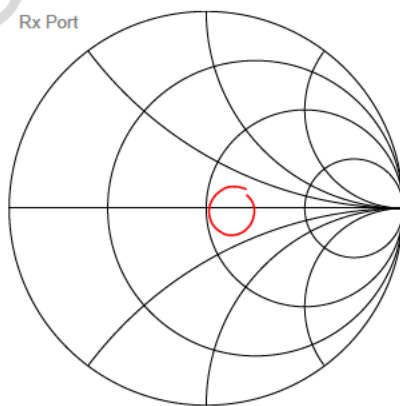
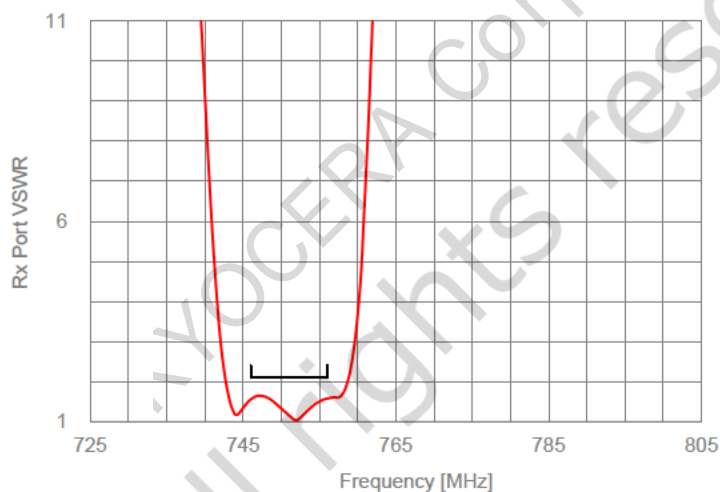
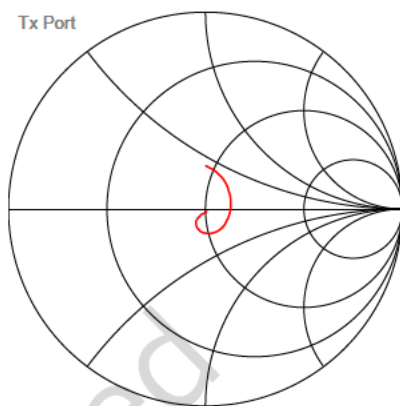
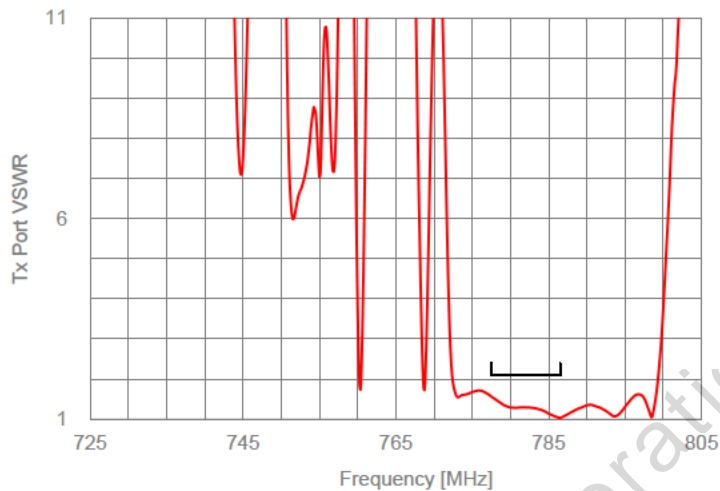


Electrical Characteristics

[Tx to Rx]

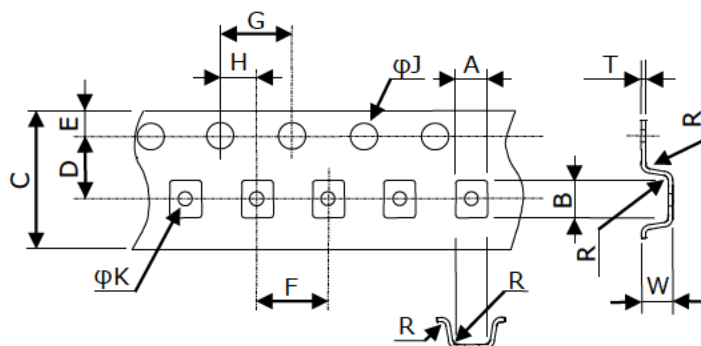


Electrical Characteristics



Tape & Reel Specification

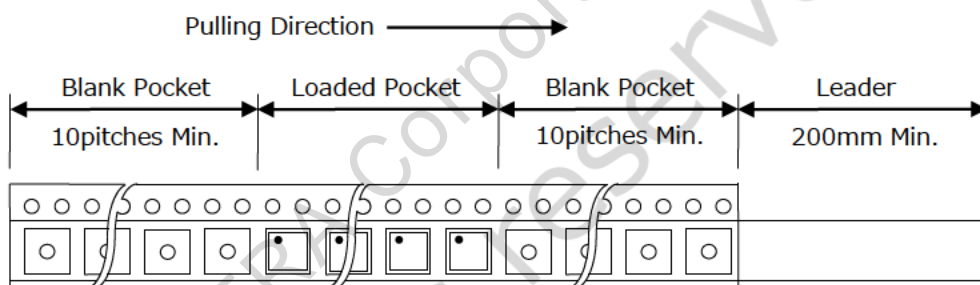
[Tape]



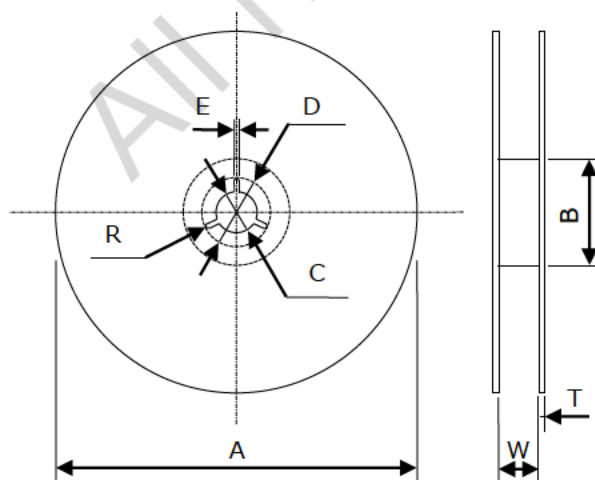
Unit : mm

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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