

# Datasheet of SAW Duplexer

## 1814 Band13 Unbalanced

### NS07 Band Care

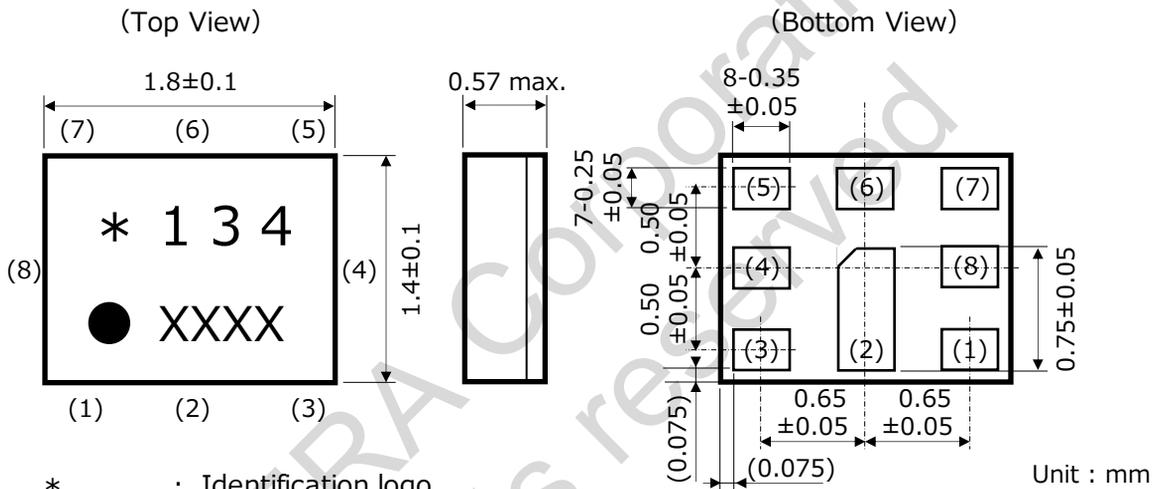
KYOCERA Part No. : SD18-0782R8UUF1

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### Rating

Items	Rating	Unit	Note
Operating Temperature Range	-20 to +90	deg.C	
Storage Temperature Range	-40 to +90	deg.C	
Max Input Power (Tx port)	+30	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50	ohm	Unbalance
Ant. Port Nominal Impedance	50+13nH//2.7pF	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

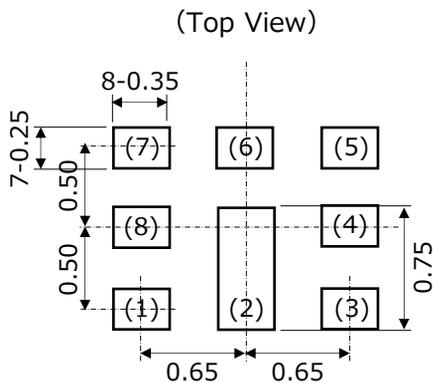
### Dimensions



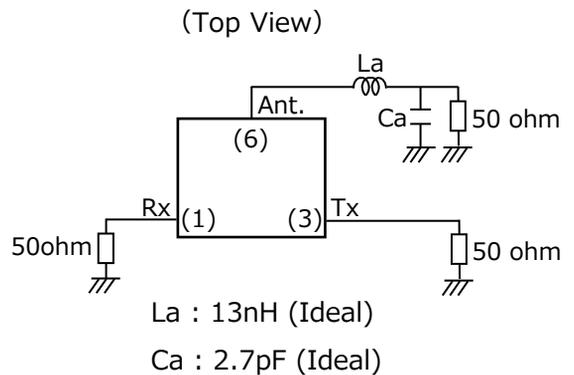
- \* : Identification logo
- 134 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

### Recommendable Land Pattern



### Measurement Circuit



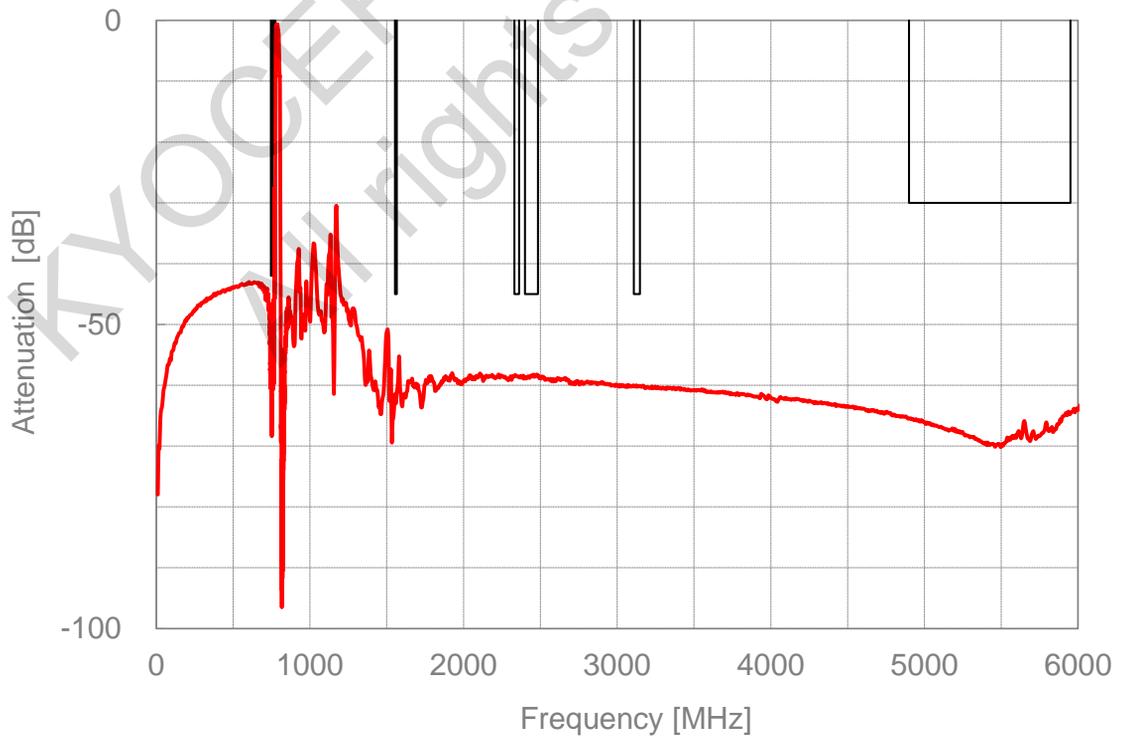
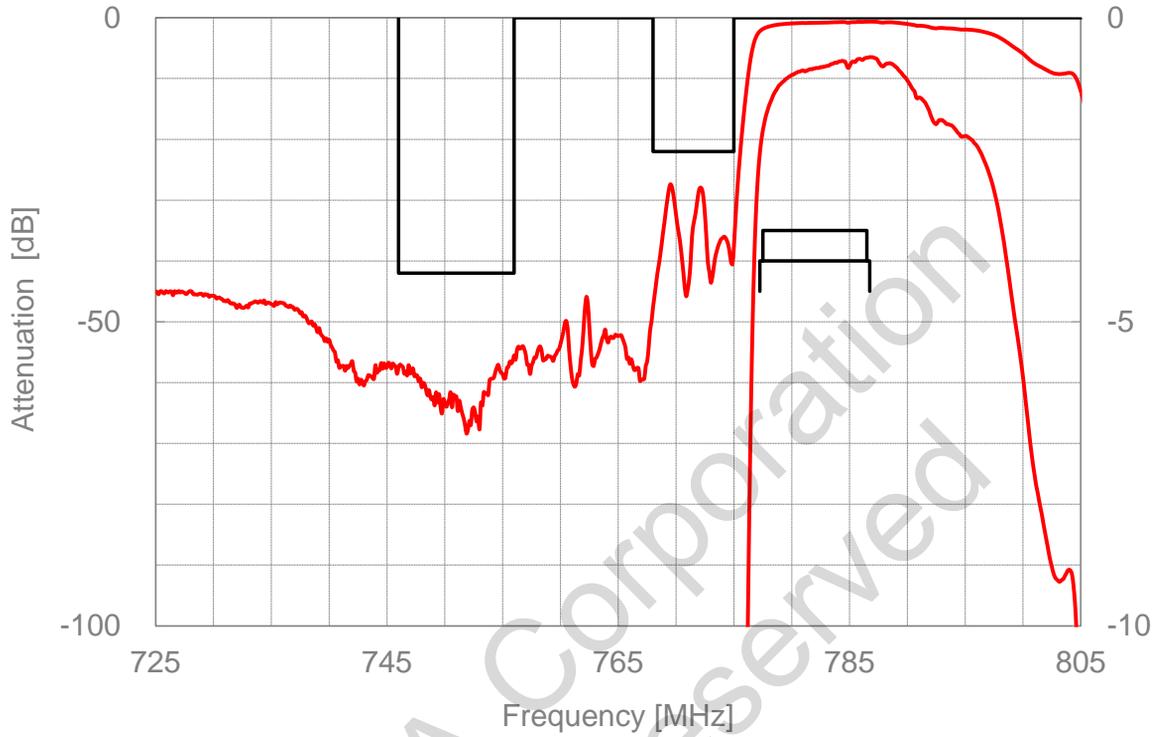
## Electrical Characteristics

Items		Frequency (MHz)	Characteristics			Unit	Notes	
			min.	typ.	max.			
Tx to Ant	Nominal Frequency	-	782			MHz		
	Insertion loss	777.5 to 786.5	-	1.8	3.5	dB		
		777.25 to 786.75	-	2.1	4.0	dB		
	VSWR	Tx	777.5 to 786.5	-	1.2	2.1	-	
		Ant	777.5 to 786.5	-	1.2	2.1	-	
	Absolute attenuation	10 to 746	30	43	-	dB		
		746 to 756	42	56	-	dB	Rx	
		768 to 775	22 *	26 *	-	dB	NS07 Relative to IL(dBint*)	
		1554 to 1565	45	62	-	dB	2fTx	
2331 to 2361		45	58	-	dB	3fTx		
2400 to 2484		45	58	-	dB	ISM		
	3108 to 3148	45	60	-	dB	4fTx		
	4900 to 5950	30	64	-	dB	ISM 5G		
Ant to Rx	Nominal Frequency	-	751			MHz		
	Insertion loss	746 to 756	-	1.3	2.5	dB		
	VSWR	Rx	746 to 756	-	1.3	2.1	-	
		Ant	746 to 756	-	1.4	2.1	-	
	Absolute attenuation	777 to 787	50	56	-	dB	Tx	
2400 to 2500		40	63	-	dB	ISM 2.4G		
4900 to 5950		40	65	-	dB	ISM 5G		
Tx to Rx Isolation	Isolation	746 to 756	52	57	-	dB		
		777 to 787	55	59	-	dB		

\*dBint : Integrated to LTE Modulation (4.5MHz)

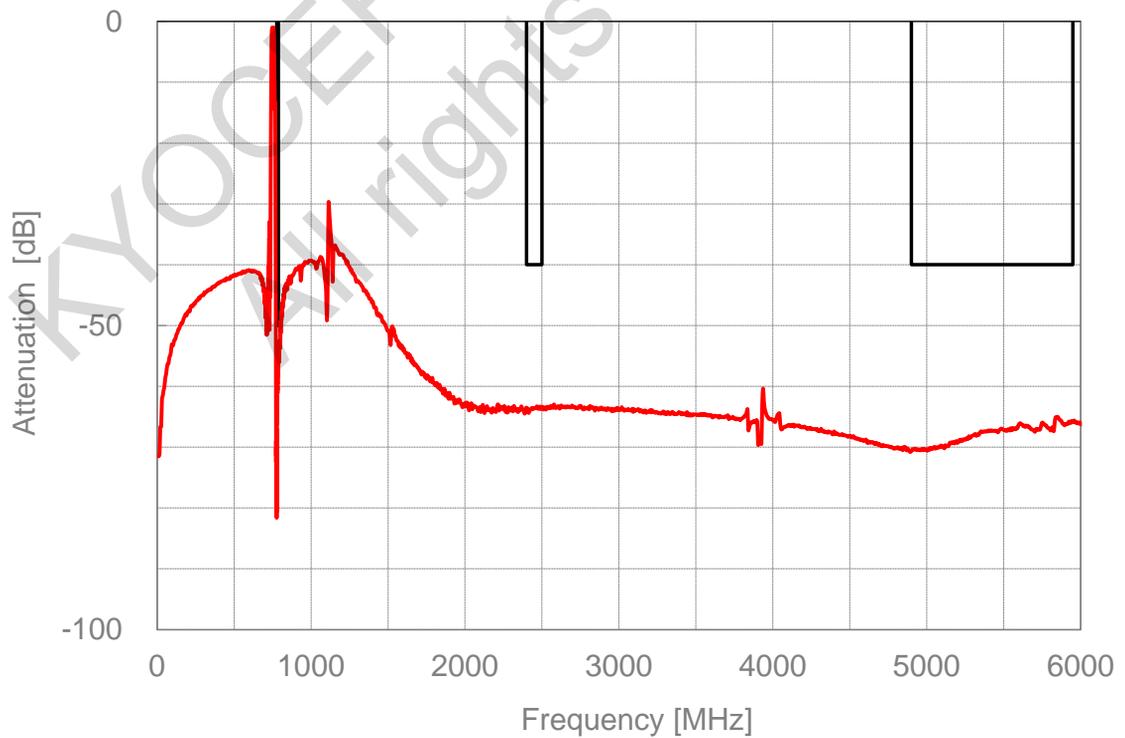
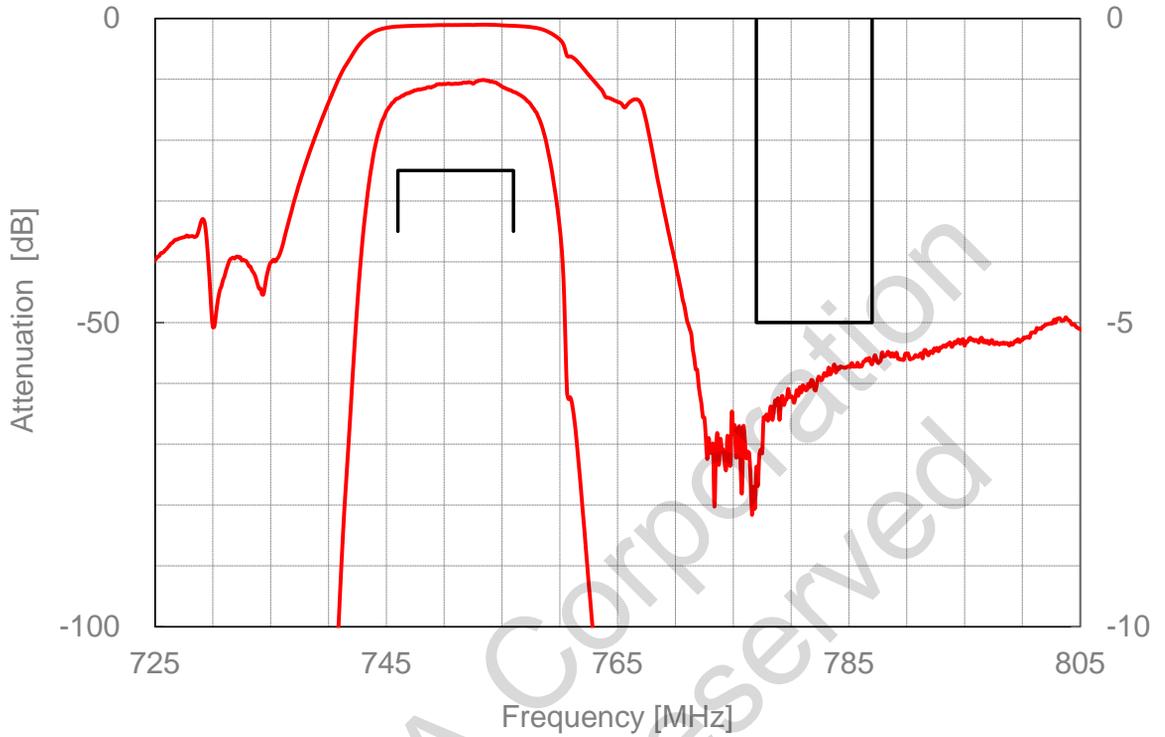
**Electrical Characteristics**

[Tx to Ant]



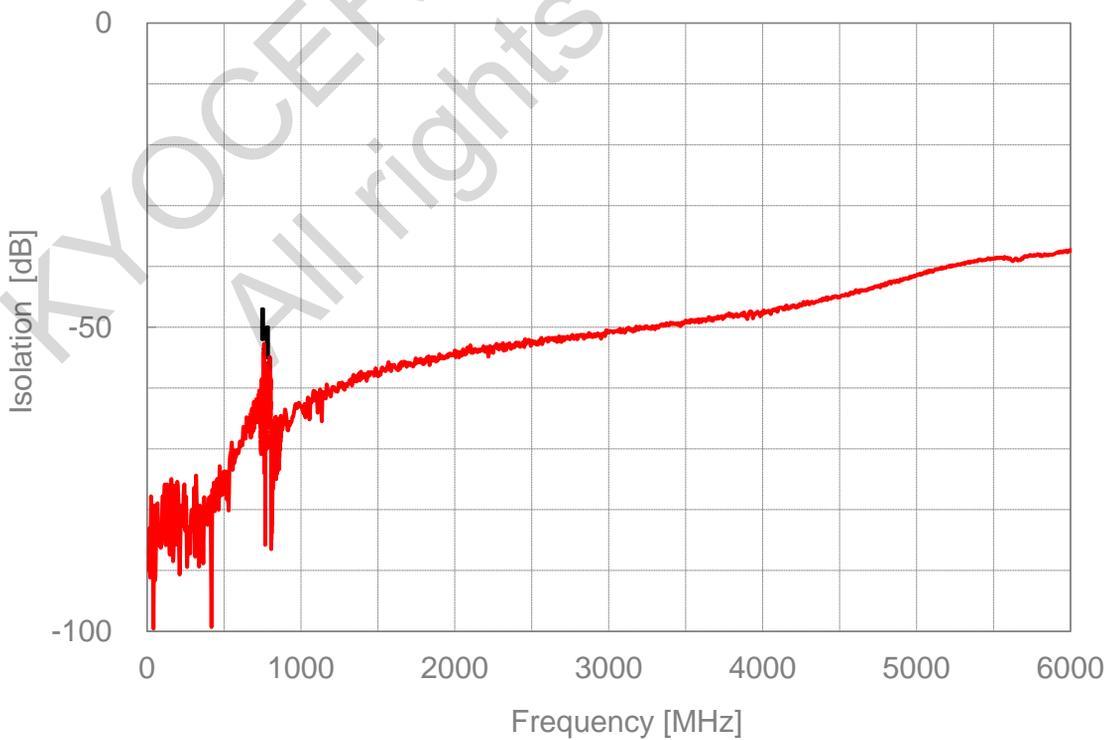
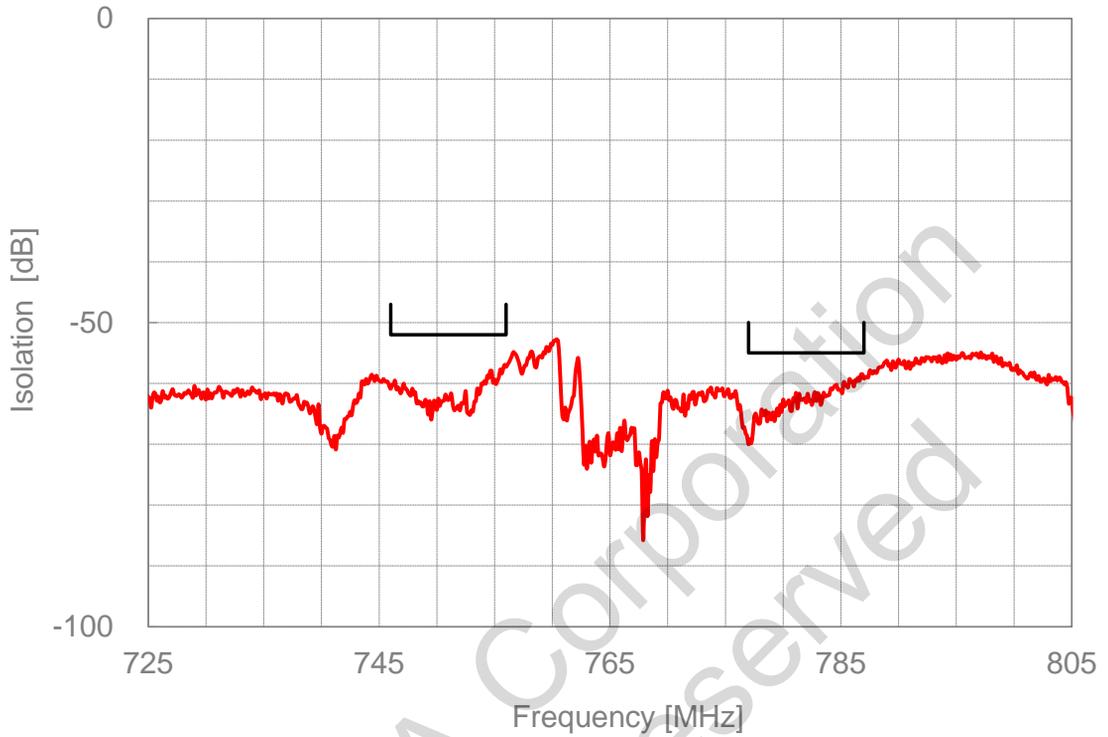
**Electrical Characteristics**

[Ant to Rx]

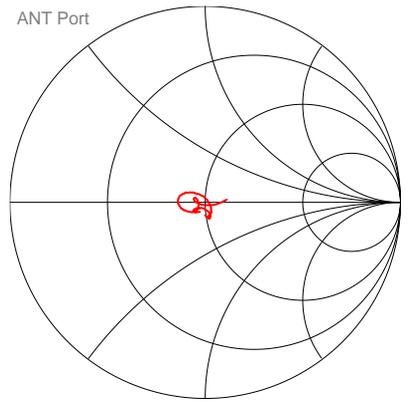
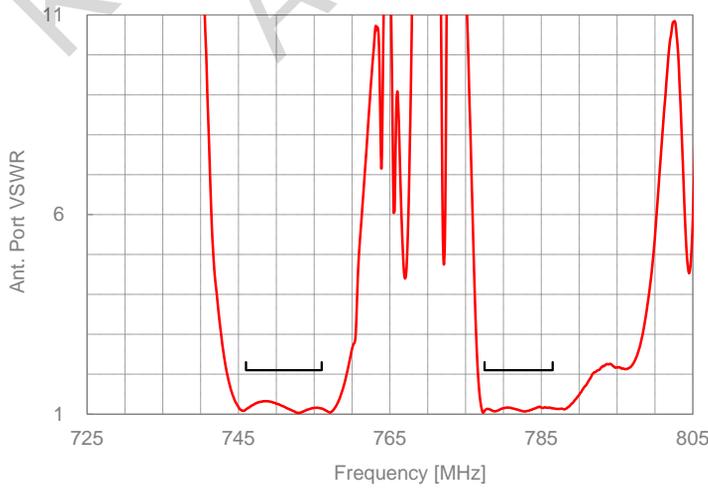
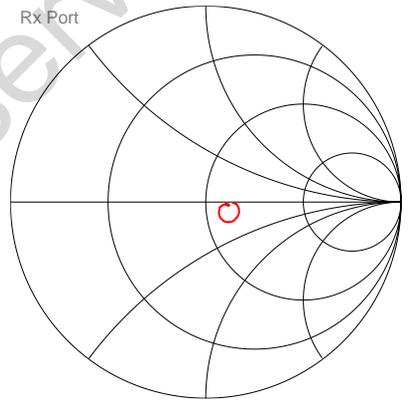
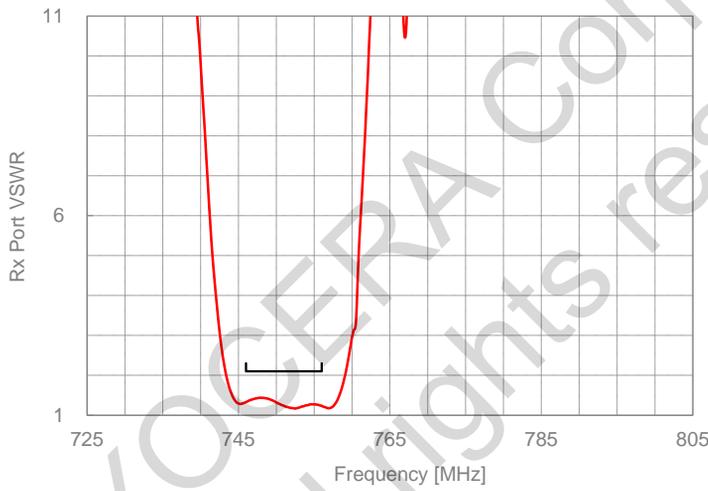
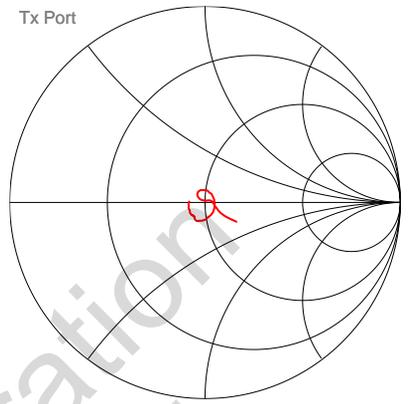
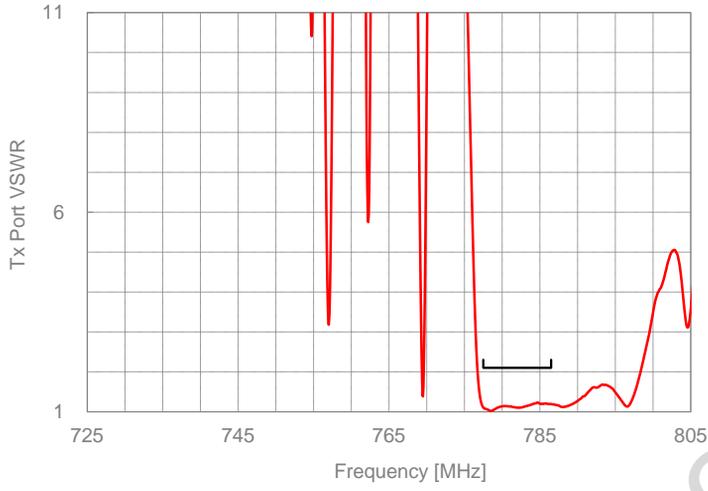


### Electrical Characteristics

[Tx to Rx]

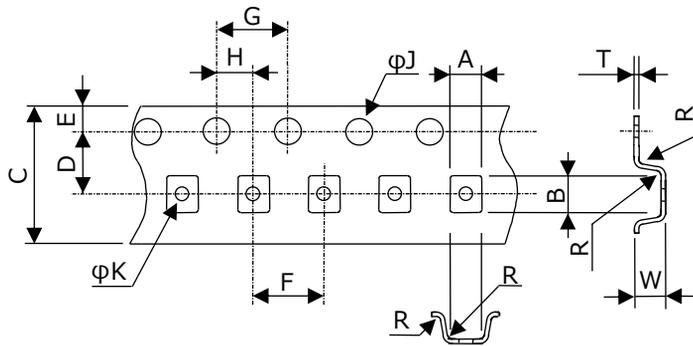


**Electrical Characteristics**



### Tape & Reel Specification

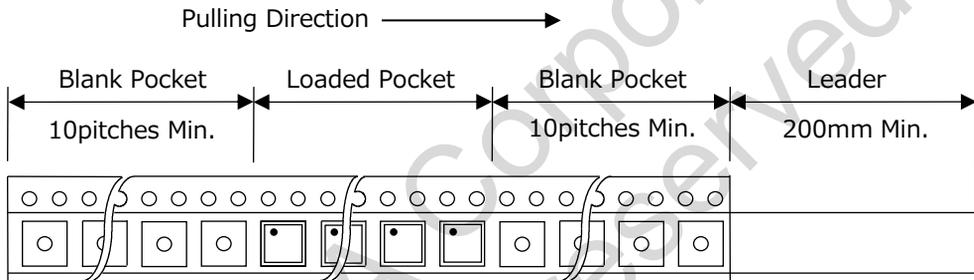
#### [Tape]



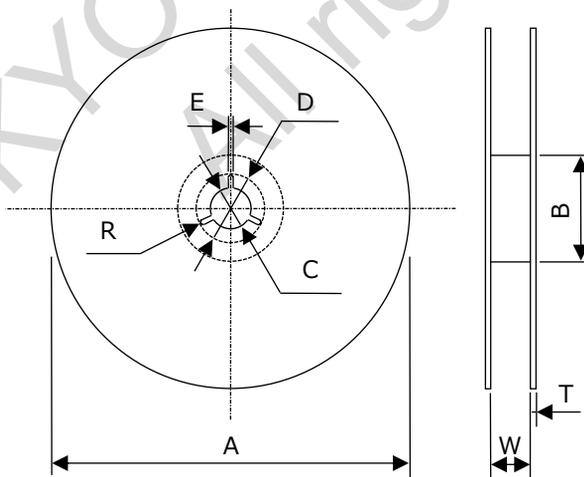
Unit : mm

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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