

Datasheet of SAW Duplexer 2520 Band8 for Base station

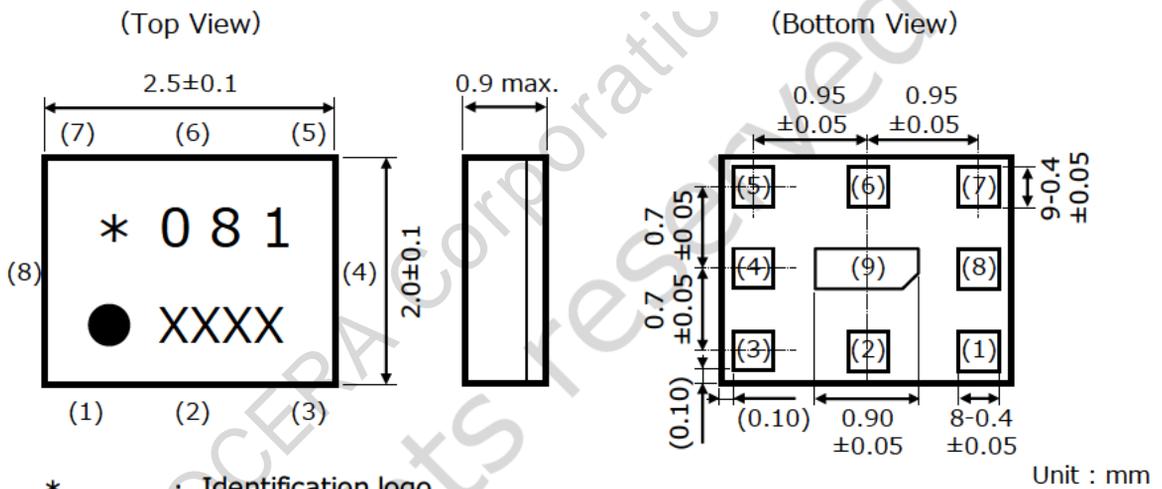
KYOCERA Part No. : SD25 0942R9UUA1

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Rating

Items	Rating	Unit	Note
Operating Temperature Range	-40 to +95	deg.C	
Storage Temperature Range	-40 to +95	deg.C	
Max Input Power (Tx port)	+30	dBm	LTE 5MHz (PAR=6.95dB) 10 years @95deg.C
Tx Port Nominal Impedance	50+3.0nH	ohm	Unbalance
Ant. Port Nominal Impedance	50//11nH	ohm	Unbalance
Rx Port Nominal Impedance	50+1.0nH	ohm	Unbalance

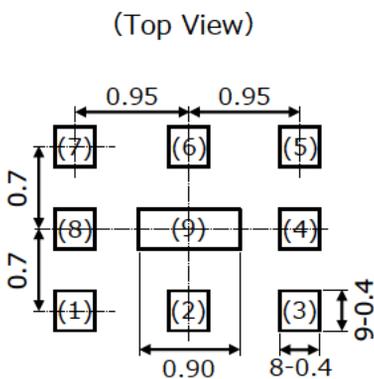
Dimensions



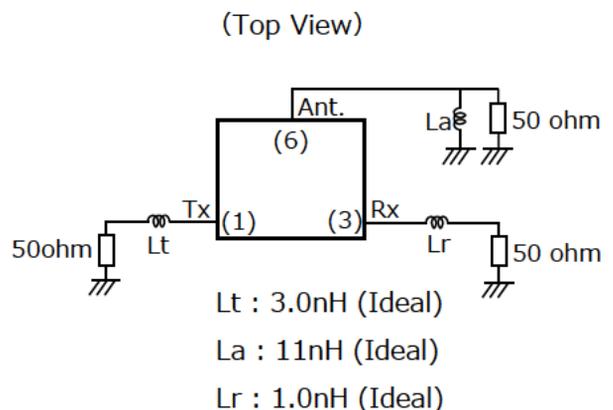
- * : Identification logo
- 081 : Identification no.
- : Index mark of pin 1
- XXXX : Production code

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

Recommendable Land Pattern



Measurement Circuit

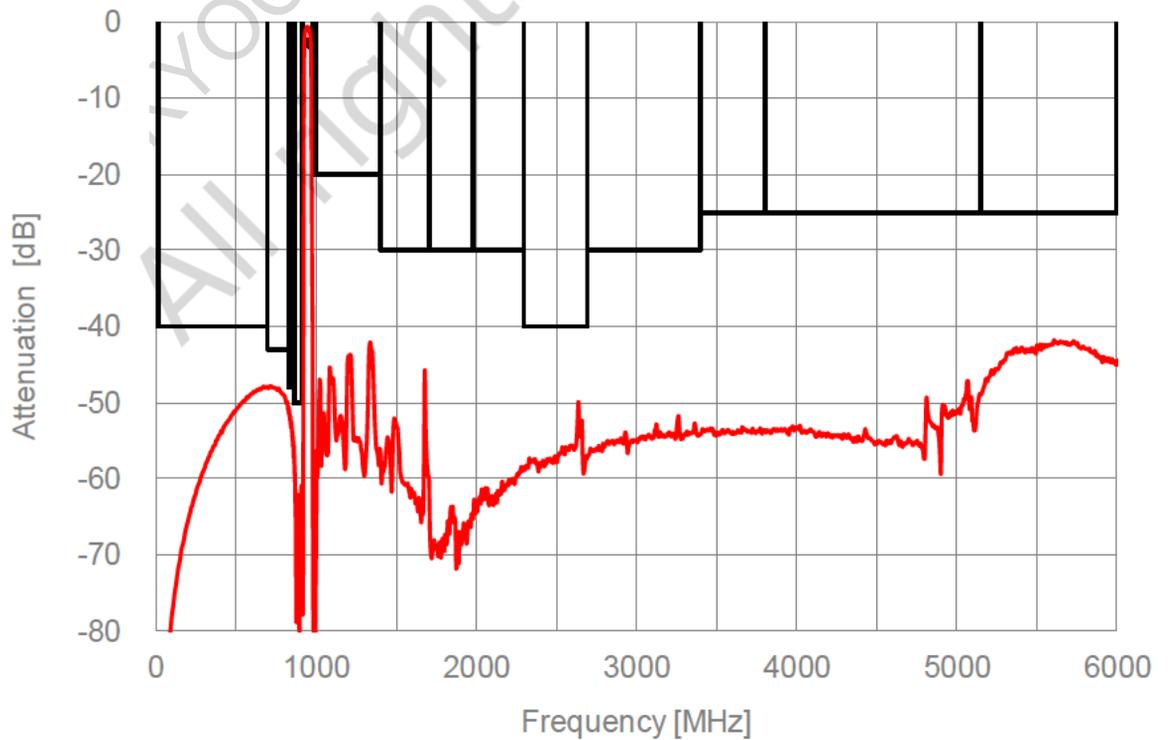
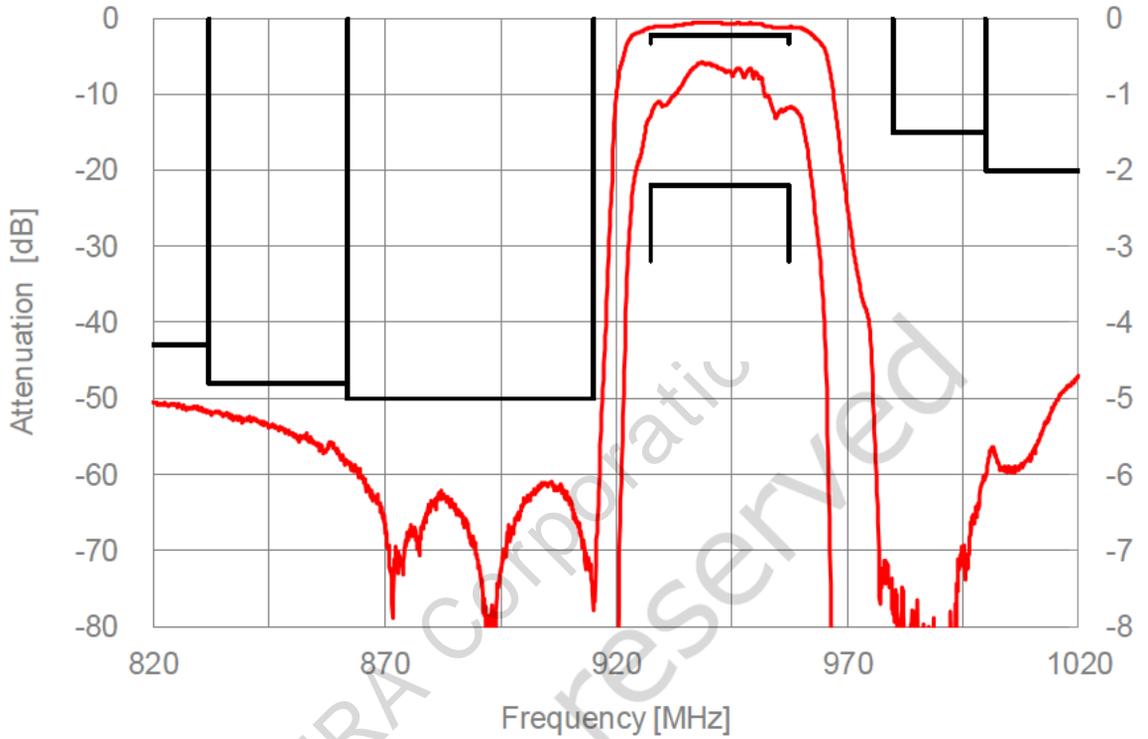


Electrical Characteristics

ITEMS		Frequency (MHz)		Characteristics			Unit	Note	
				min.	typ.	max.			
Tx to Ant	Insertion Loss	925	- 960	-	1.3	2.2	dB	Average over any 5MHz	
	Ripple(any 5MHz)	925	- 960	-	0.8	2.2	dB		
	VSWR	Tx	925	- 960	-	1.6	2.1	-	
		Ant	925	- 960	-	1.8	2.5	-	
	Attenuation		10	- 699	40	48	-	dB	
			699	- 832	43	48	-	dB	
			832	- 862	48	52	-	dB	
			862	- 915	50	58	-	dB	
			980	- 1000	15	60	-	dB	
			1000	- 1400	20	42	-	dB	
			1400	- 1710	30	46	-	dB	
			1710	- 1980	30	64	-	dB	
			1980	- 2300	30	58	-	dB	
			2300	- 2690	40	50	-	dB	
			2690	- 3400	30	52	-	dB	
		3400	- 3800	25	53	-	dB		
	3800	- 5150	25	47	-	dB			
	5150	- 6000	25	42	-	dB			
Ant to Rx	Insertion Loss	880	- 915	-	1.4	2.5	dB	Average over any 5MHz	
	Ripple(any 5MHz)	880	- 915	-	0.9	2.5	dB		
	VSWR	Rx	880	- 915	-	1.6	2.0	-	
		Ant	880	- 915	-	1.6	2.2	-	
	Attenuation		10	- 699	40	43	-	dB	
			699	- 821	40	43	-	dB	
			821	- 860	15	48	-	dB	
			925	- 960	46	53	-	dB	
			960	- 1805	25	35	-	dB	
			1805	- 1880	40	57	-	dB	
			1880	- 2110	30	55	-	dB	
			2110	- 2690	30	42	-	dB	
			2690	- 3400	25	42	-	dB	
			3400	- 3800	25	41	-	dB	
			3800	- 5150	15	27	-	dB	
		5150	- 6000	20	26	-	dB		
TX to RX	Isolation	880	- 915	55	62	-	dB	Average over any 5MHz	
		925	- 960	49	61	-	dB	Average over any 5MHz	

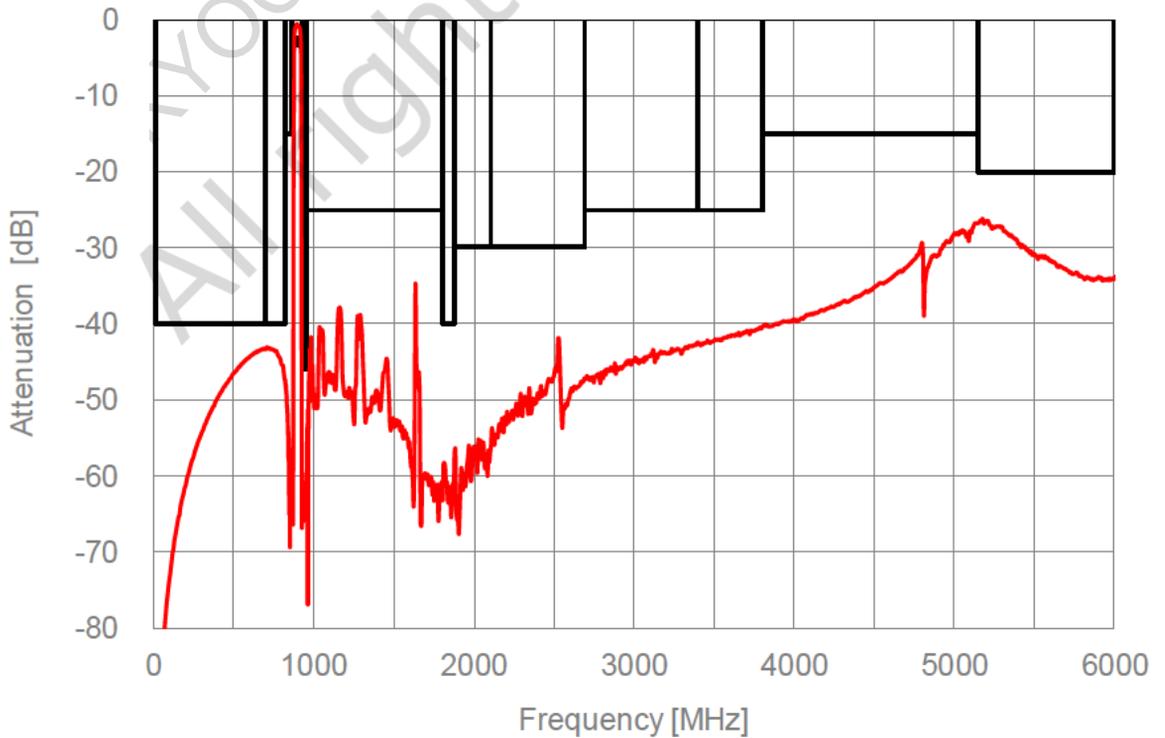
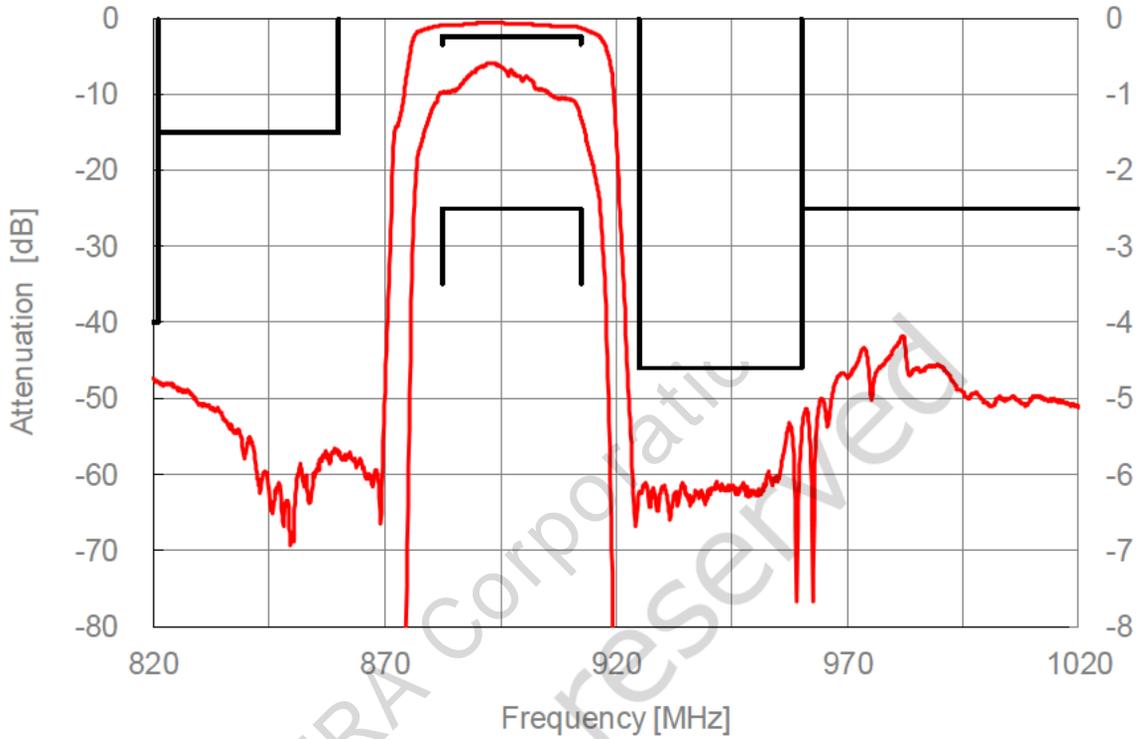
Electrical Characteristics

[Tx to Ant]



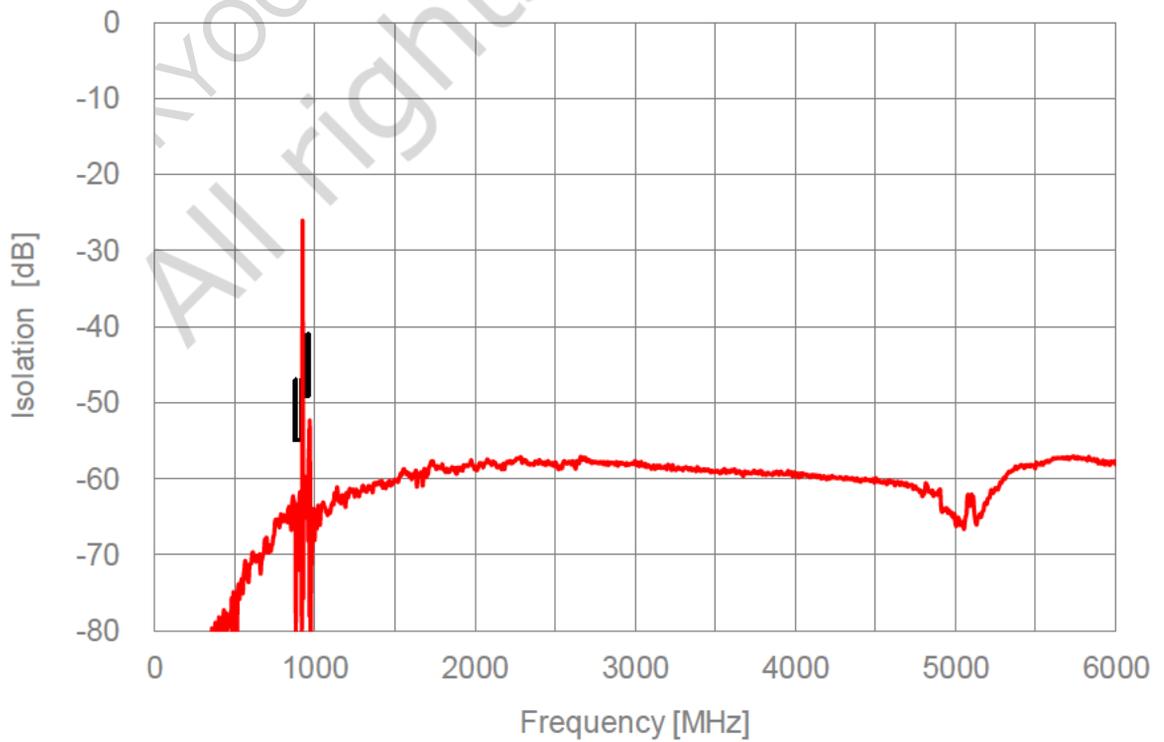
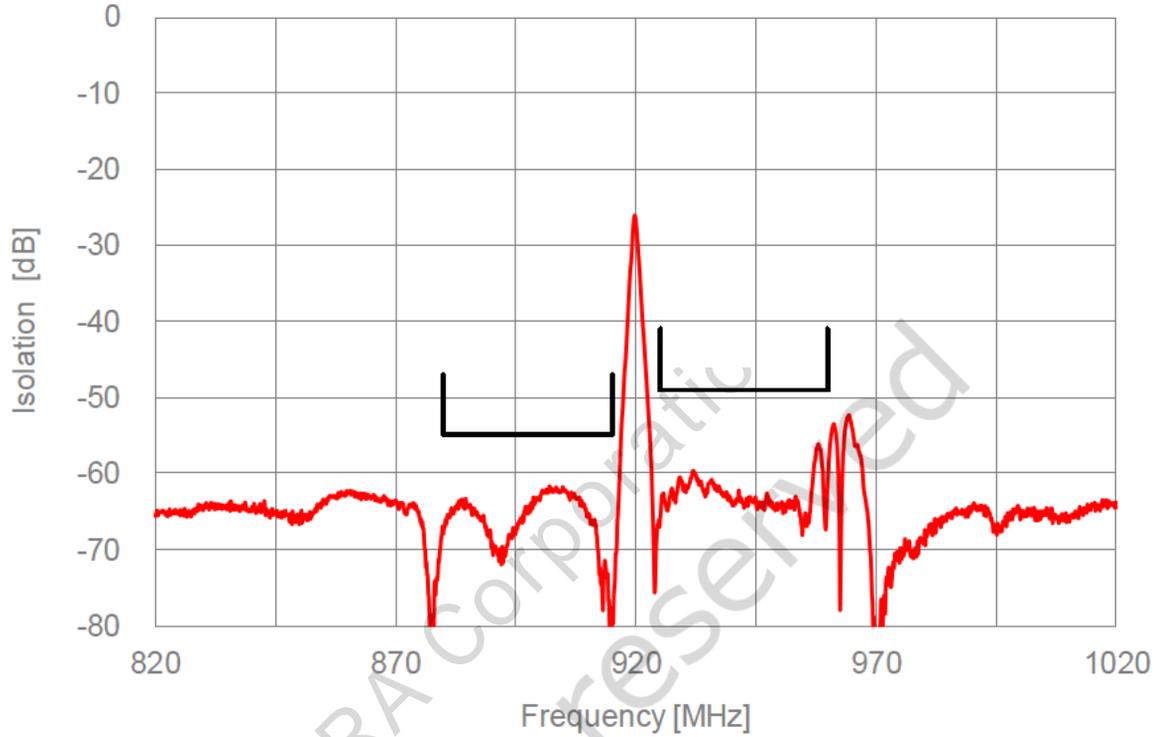
Electrical Characteristics

[Ant to Rx]

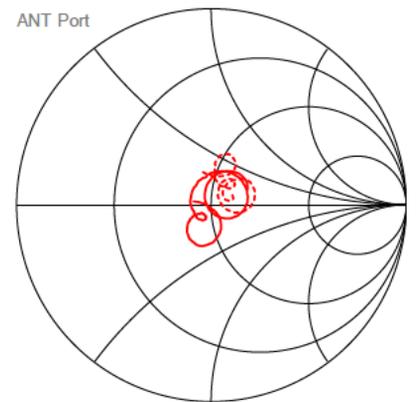
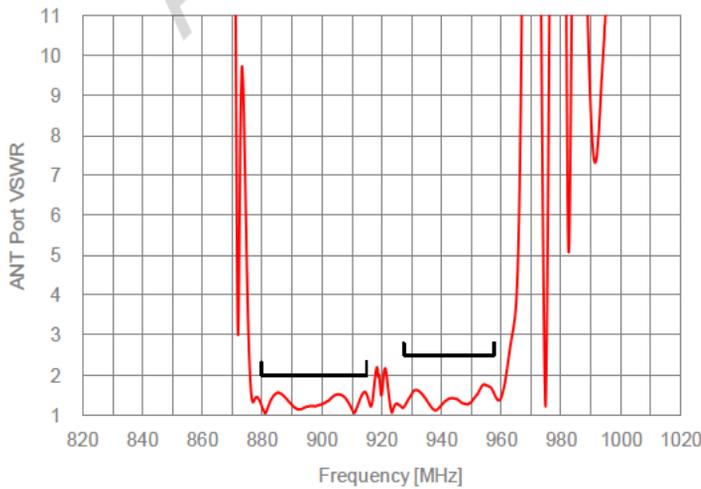
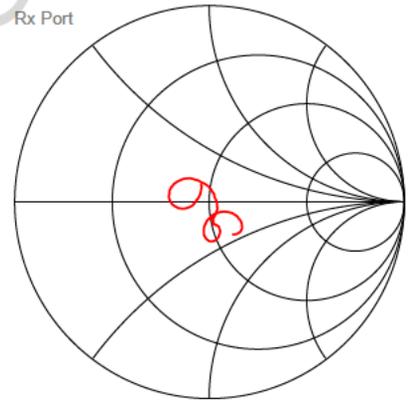
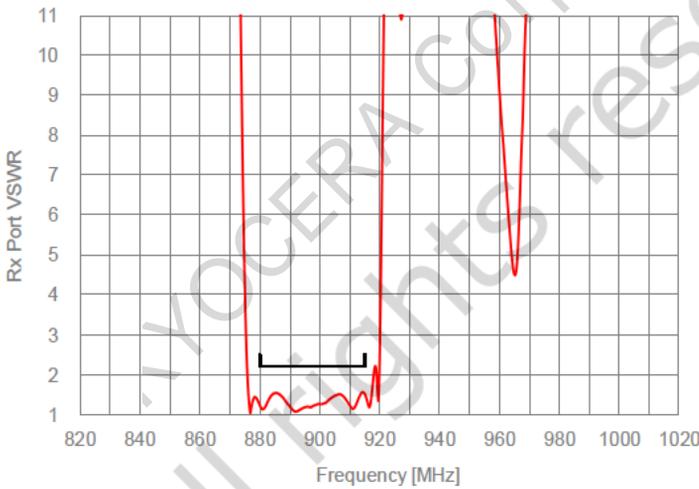
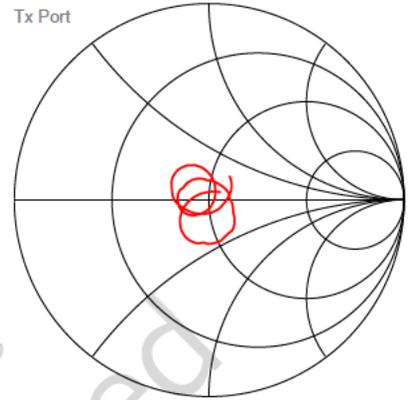
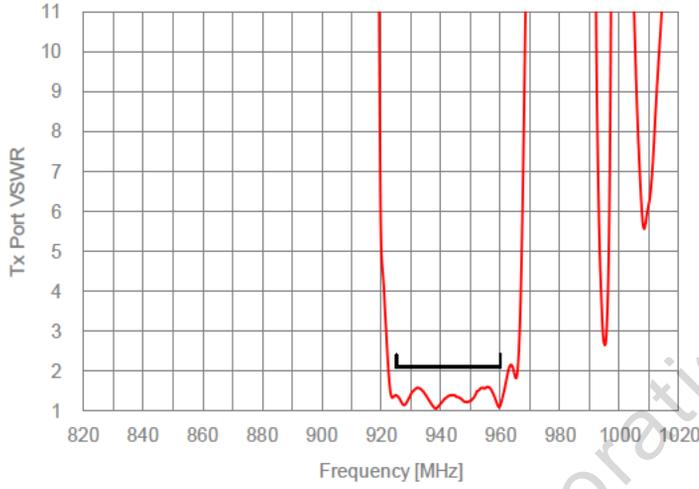


Electrical Characteristics

[Tx to Rx]

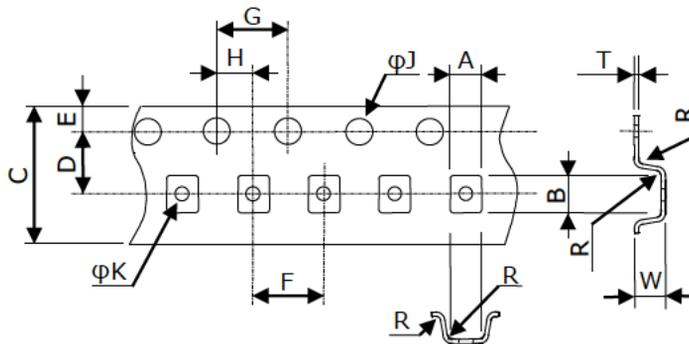


Electrical Characteristics



Tape & Reel Specification

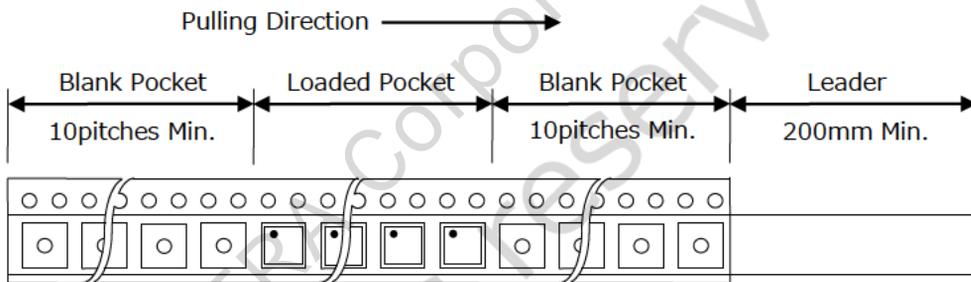
[Tape]



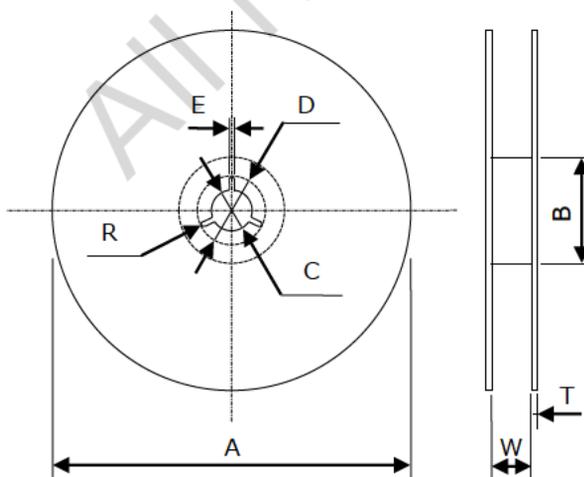
Unit : mm

Part	Dimension
A	2.3±0.1
B	2.8±0.1
C	8.0±0.1
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
φK	1.0±0.1
R	0.3 Max
W	0.9±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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