

RoHS Compliant

Datasheet of SAW Duplexer 2520 Band25(2) for Base station

KYOCERA Part No.: SD25-1962R9UUA1

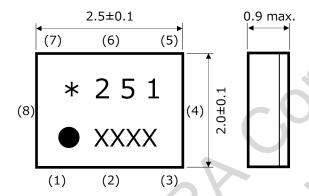


Rating

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	ohm	Unbalance			
Ant. Port Nominal Impedance	50//3.3nH	ohm	Unbalance			
Rx Port Nominal Impedance	50//6.2nH	ohm	Unbalance			

Dimensions

(Top View)

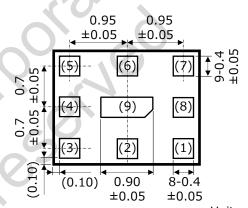


: Identification logo

251 : Identification no.• : Index mark of pin 1

XXXX : Production code

(Bottom View)



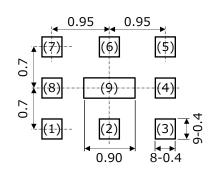
Unit : mm

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

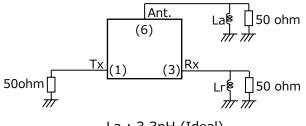
Recommendable Land Pattern

Pattern Measurement Circuit

(Top View)







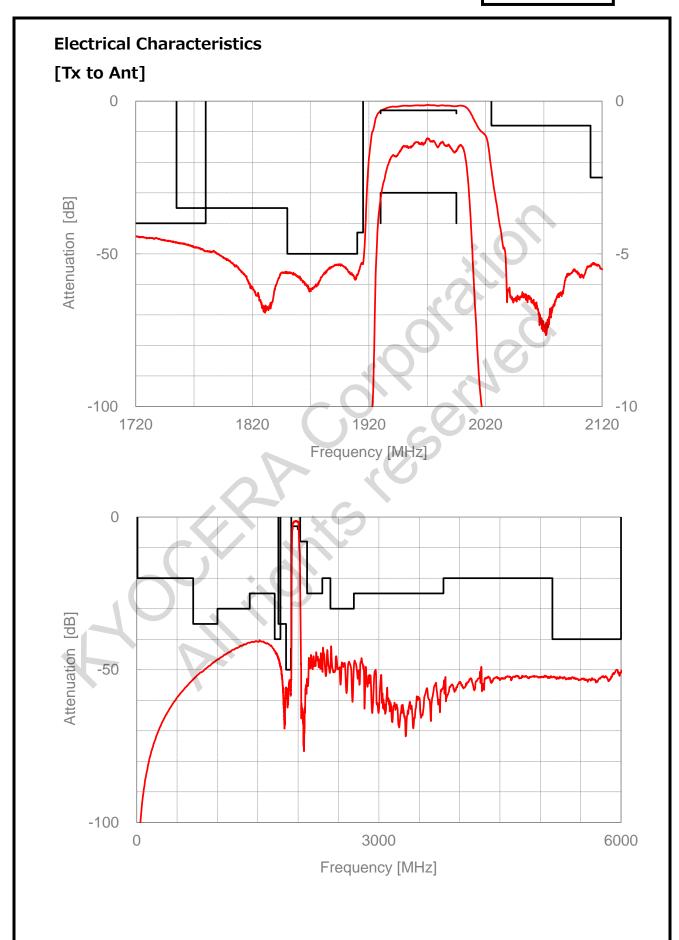
La: 3.3nH (Ideal) Lr: 6.2nH (Ideal)



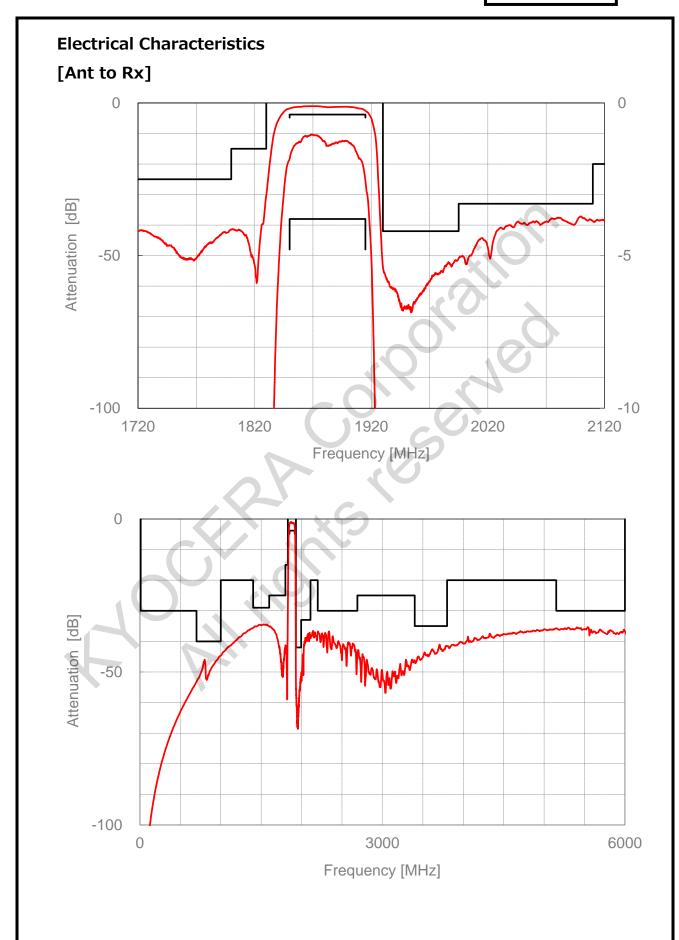
Electrical Characteristics

	ITEMS		Frequency Range		Characteristics			Unit	Note	
TIEMP			(MHz)			Min.	Min. Typ. Max			Offic
x to Ant	Average Insertion Loss (Over any 10MHz)		1930 - 1995		-	2.3	3.0	dB	Over any 10MHz average	
	Ripple		1930	-	1995	-	2.0	3.7	dB	
		Tx	1930	-	1995	-	1.7	2.2	-	
	VSWR	Ant	1930	-	1995	-	1.7	2.3	-	
	Attenaution	1	10	-	700	20	53	-	dB	
			700	-	1000	35	47	-	dB	
			1000	-	1400	30	41	-	dB	
			1400	-	1710	25	40	- 🔷	dB	
			1710	-	1780	40	44	+	dB	
			1755	-	1850	35	46		dB	
			1850	-	1910	50	53		dB	
			1910	-	1915	43	54	-	dB	Over any 5MHz average
			2025	-	2110	8	22	-	dB	J
			2110	-	2300	25	44	-	dB	
			2300	-	2400	20	43		dB	
			2400	-	2690	30	42	-	dB	
			2690	-	3800	25	46	_	dB	
			3800	-	4200	20	52	O .	dB	
			4200	7.	5150	20	49	-	dB	
			5150	-	6000	40	50	-	dB	
Ant to Rx	Average Insertion (Over any 5MHz)	Loss	1850	-	1915	-	2.0	3.8	dB	Over any 5MHz Average
	Ripple		1850	-	1915		1.5	2.9	dB	
	VSWR	Rx	1850	-	1915		1.3	2.2	-	
		Ant	1850	-	1915	-	1.4	2.4	-	
Attenaution	Attenaution		10		700	30	53	-	dB	
			700		1000	40	45	-	dB	
		1000	-	1400	20	36	-	dB		
			1400	-	1600	29	34	-	dB	
			1600	-	1800	25	35	-	dB	
			1800	-	1830	15	30	-	dB	S FMU
+			1930	-	1995	42	52	-	dB	Over any 5MHz average -20~+95degC
		Ť	1930	-	1995	32	52	-	dB	Over any 5MHz average -40~-20degC
			1995	-	2110	33	37	-	dB	
			2110	-	2200	20	37	-	dB	
			2200	-	2690	30	37	-	dB	
			2690	-	3400	25	43	-	dB	
			3400	-	3800	35	41	-	dB	
			3800	-	5150	20	36	-	dB	
			5150	-	6000	30	35	-	dB	
Tx to Rx	Average Isolation		1850	-	1910	50	54	-	dB	Over any 5MHz average
	(over any 5MHz)		1910	-	1915	49	59	-	dB	
			1930	-	1995	37	54		dB	Over any 5MHz average -20~+95degC
			1930	-	1995	31	54	-	dB	Over any 5MHz average -40~-20degC

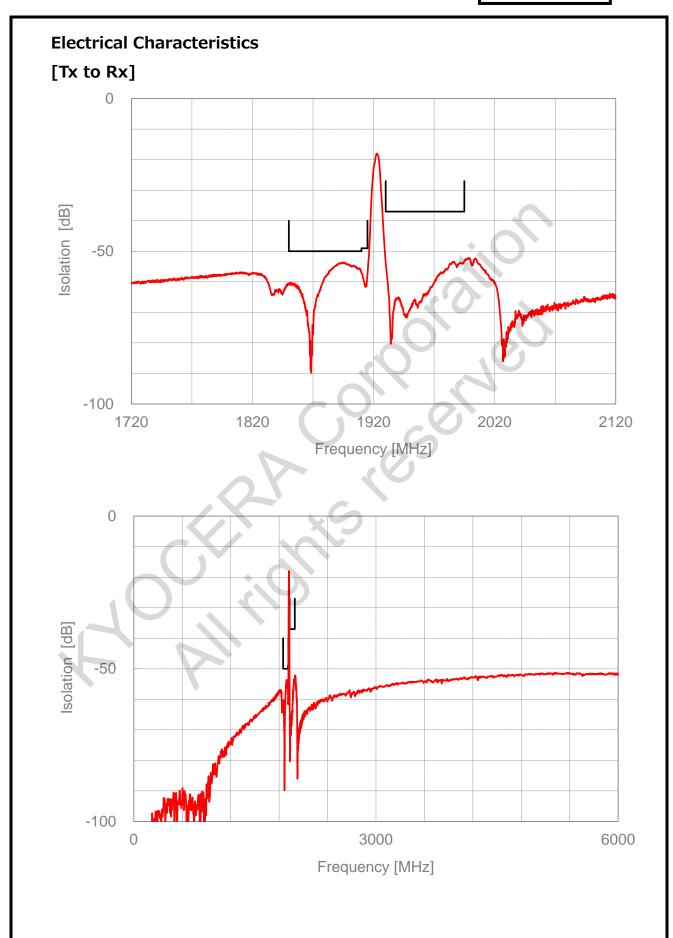




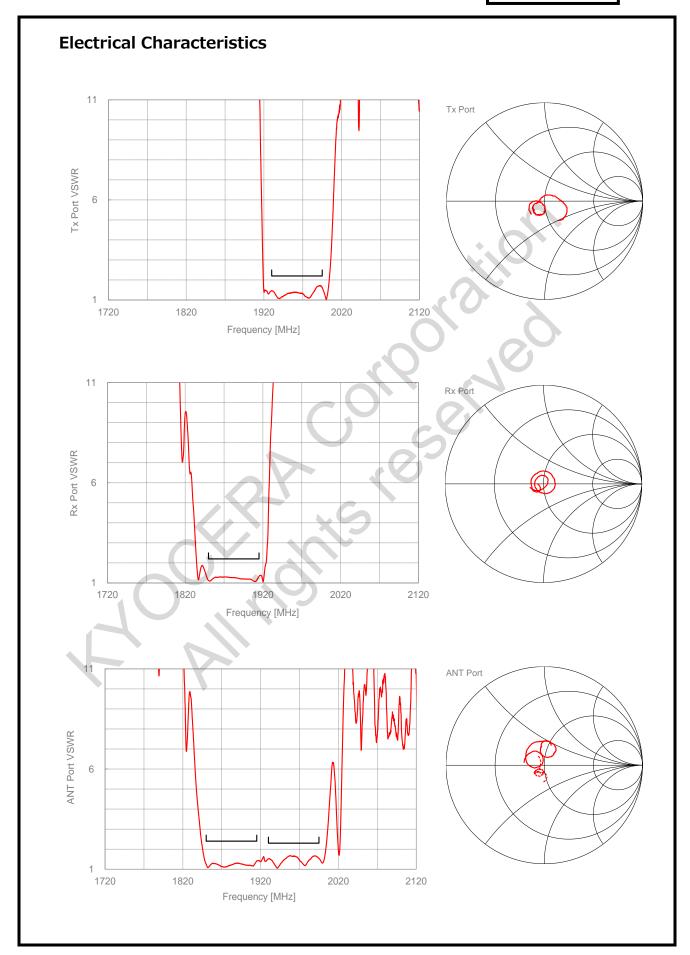








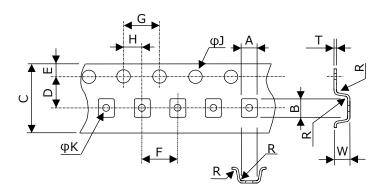






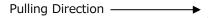
Tape & Reel Specification

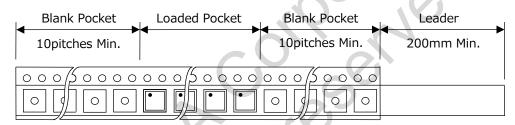
[Tape]



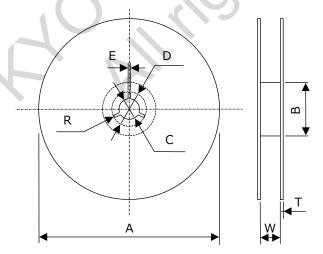
	Unit : mm
Part	Dimension
Α	2.3±0.1
В	2.8±0.1
С	8.0±0.1
D	3.50±0.05
Е	1.75±0.10
F	4.0±0.1
G	4.0±0.1
Н	2.00±0.05
φJ	1.5±0.1
φК	1.0±0.1
R	0.3 Max
W	0.9±0.1
T	0.20±0.05

W: Dimension is depth of pockets.





[Reel]



 $\begin{array}{c|ccc} & & & & & & & & & \\ & \text{Part} & & \text{Dimension} & & \\ & A & & 178 \pm 2 & \\ & B & & 60 \pm 2 & \\ & C & & 13.0 \pm 0.2 & \\ & D & & 21.0 \pm 0.8 & \\ & E & & 2.0 \pm 0.5 & \\ & R & & 1 & \\ & W & & 9.5 \pm 1.0 & \\ & T & & 2.0 \pm 0.2 & \\ \end{array}$

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