

RoHS Compliant

Datasheet of SAW Duplexer 1814 Band25 Unbalanced

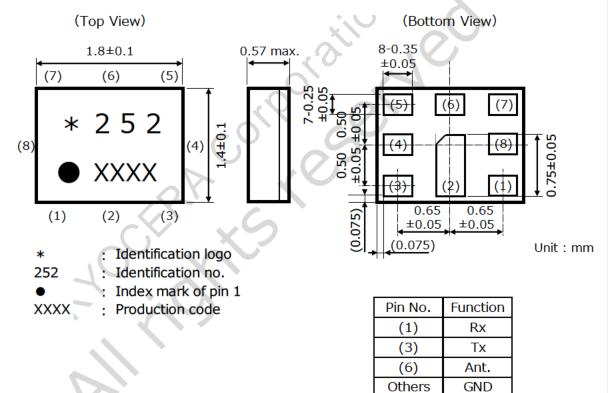
KYOCERA Part No. : SD18 1882R8UUC1

Rev.00

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//3.6nH	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

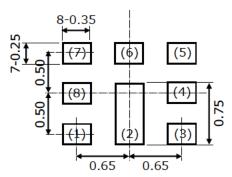
Dimensions



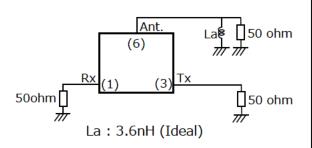
Recommendable Land Pattern

Measurement Circuit







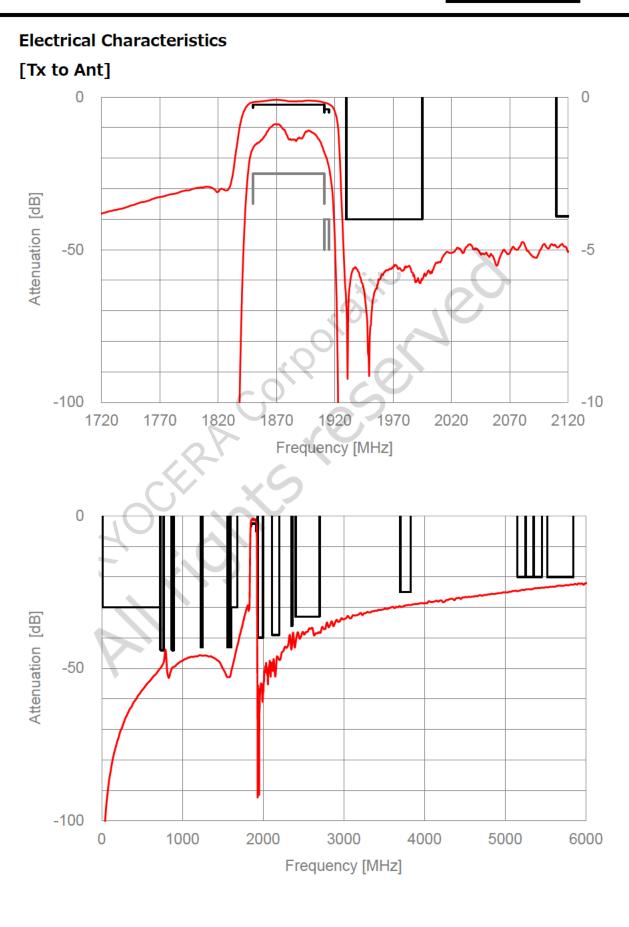


Electrical Characteristics

Items		Frequency (MHz)		Characteristics			Unit	Note		
					min.	typ.	max.			
Tx to Ant	Nominal Center Free	Nominal Center Frequency		-			1882.5		MHz	
Insertion Loss			1850	to	1911	-	1.8	2.5	dB	
			1911	to	1915	-	2.3	4.0	dB	
	Ripple (any 5MHz)		1850.48	to	1914.52	-	0.6	2.0	dB	
	VSWR	Тx	1850.48	to	1914.52	-	1.7	2.0	-	
		Ant	1850.48	to	1914.52	-	1.6	2.0	-	
	Absolute Attenuation		10	to	728	30	50	-	dB	
			728	to	768	44	48	-	dB	
			869	to	894	44	49	-	dB	
			1226	to	1250	43	46	-	dB	
			1559	to	1563	43	53	-	dB	
			1565.4	to	1573.4	43	53		dB	
			1573.4	to	1577.5	43	53		dB	
			1577.5	to	1585.4	43	53		dB	
			1597.6	to	1605.9	43	51	-	dB	
			1605.866	to	1680	30	43	-	dB	
			1930	to	1995	40	55	-	dB	-20 to +85deg.C
			2110	to	2200	39	46	-	dB	
			2350	to	2360	36	41	-	dB	
			2400	to	2700	33	37	-	dB	
			3700	to	3830	25	29	-	dB	
		\bigcirc	5150	to	5350	20	24	-	dB	
	C		5254	to	5455	20	24	-	dB	
			5520	to	5845	20	22	-	dB	
Ant to Rx	Nominal Center Free	quency		-			1962.5	5	MHz	
	Insertion Loss		1930.48	to	1994.52	-	2.7	3.5	dB	
	Ripple (any 5MHz)	•	1930 48	to	1994.52	-	0.6	2.0	dB	
		Rx	1930.48	to	1994.52	-	1.4	2.0	-	
	VSWR	Ant	1930.48	to	1994.52	-	1.6	2.0	-	
	Absolute Attenuatio	n	1	to	1850	40	54	-	dB	
			80			50	104	-	dB	
			699	to	716	40	67	-	dB	
			777	to	787	40	65	-	dB	
			814	to	849	40	63	-	dB	
			1850	to	1915	45	53	-	dB	
			2055	to	2080	25	29	-	dB	
			2080	to	6000	40	48	-	dB	
			2305	to	2315	40	53	-	dB	
			2400	to	2500	40	53	-	dB	
			4900	to	5950	40	56	-	dB	
			5610	to	5845	48	56	-	dB	
			5790	to	5985	40	55	-	dB	
	la alatian		1574	to	1577	40	72	-	dB	
Tx to Rx	Isolation		1850.25	to	1910	55	58	-	dB	
Tx to Rx	Isolation			10	1010		58	-	dB	
Tx to Rx	Isolation			to	101/ 75	50				
Tx to Rx	Isolation		1910	to to	1914.75	50 45	ļ			-20 to +85deg C
Tx to Rx	ISOIATION		1910 1930.25	to	1994.75	45	57	-	dB	-20 to +85deg.C
Tx to Rx	ISOIATION		1910				ļ			-20 to +85deg.C -10 to +85deg.C

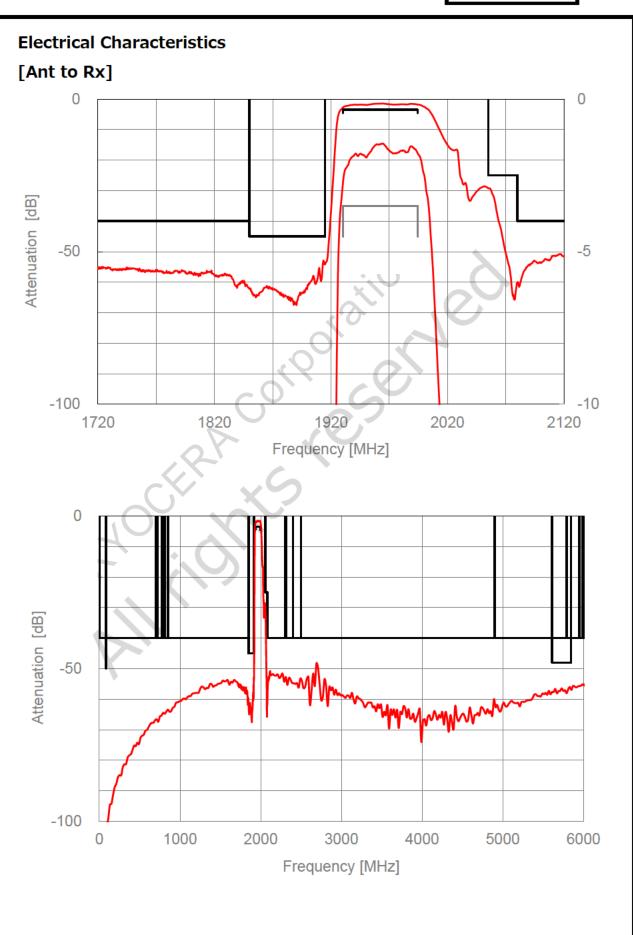


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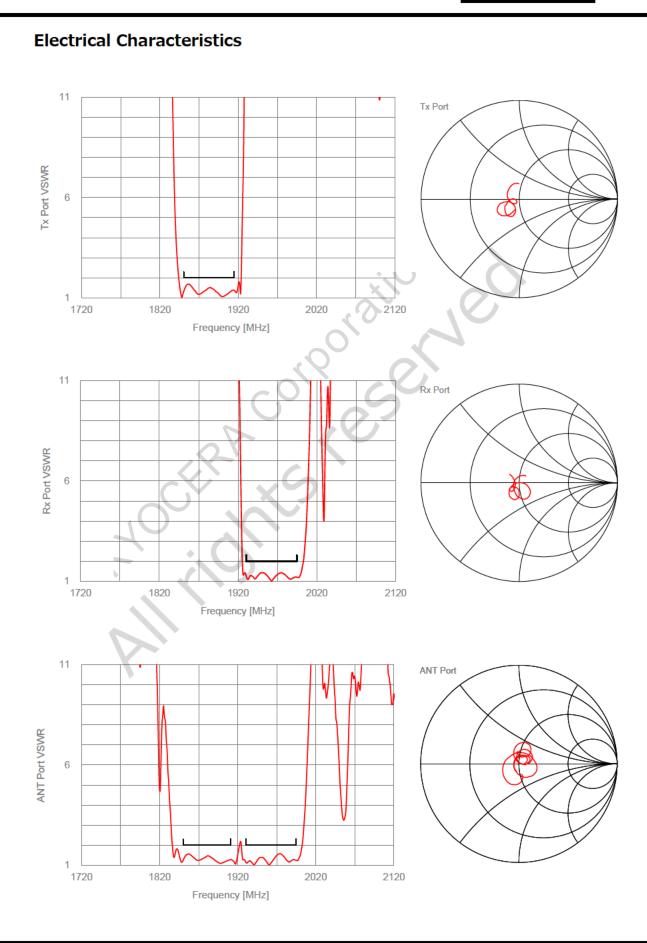


Electrical Characteristics [Tx to Rx] 0 Isolation [dB] -50 -100 1920 1720 2020 2120 1820 Frequency [MHz] 0 Ц 1 1 Isolation [dB] -50 -100 1000 2000 0 3000 4000 5000 6000 Frequency [MHz]

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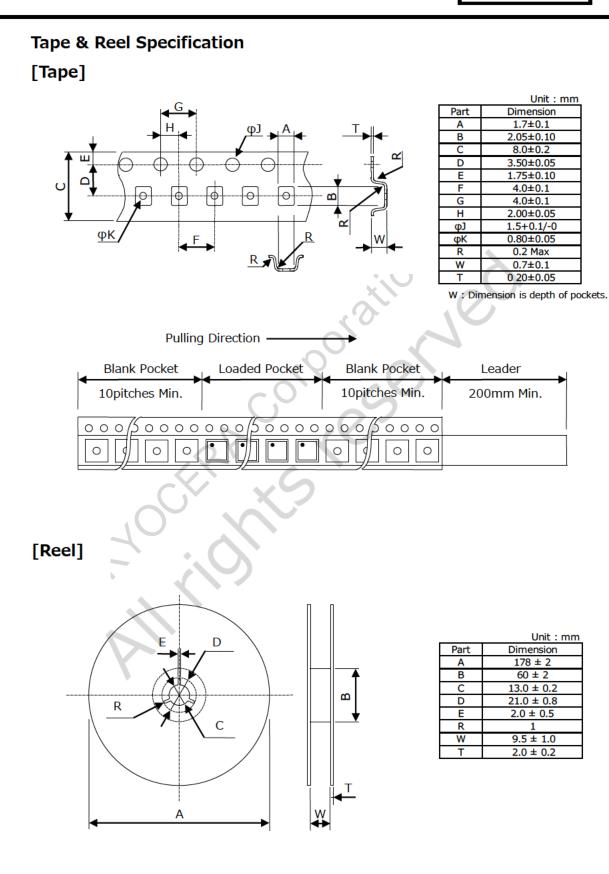






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