

RoHS Compliant

Datasheet of SAW Duplexer 1612 Band7 Unbalanced

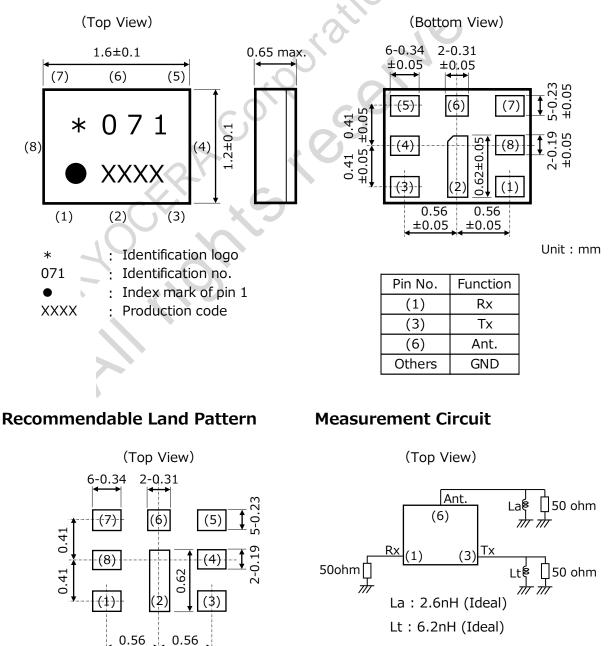
KYOCERA Part No. : SD16-2535R8UUA1

Rev.00

Rating

Items	Rating	Unit	Note		
Operating Temperature Range	-20 to +85	deg.C			
Storage Temperature Range	-40 to +85	deg.C			
	+30	dBm	5,000hours, Ta=50deg.C, CW		
Max Input Power (Tx port)	+30	dBm	5,000hours, Ta=50deg.C, DFT-s-OFDM		
	+28.5	dBm	5,000hours, Ta=50deg.C, CP-OFDM		
Tx Port Nominal Impedance	50//6.2nH	ohm	Unbalance		
Ant. Port Nominal Impedance	50//2.6nH	ohm	Unbalance		
Rx Port Nominal Impedance	50	ohm	Unbalance		

Dimensions





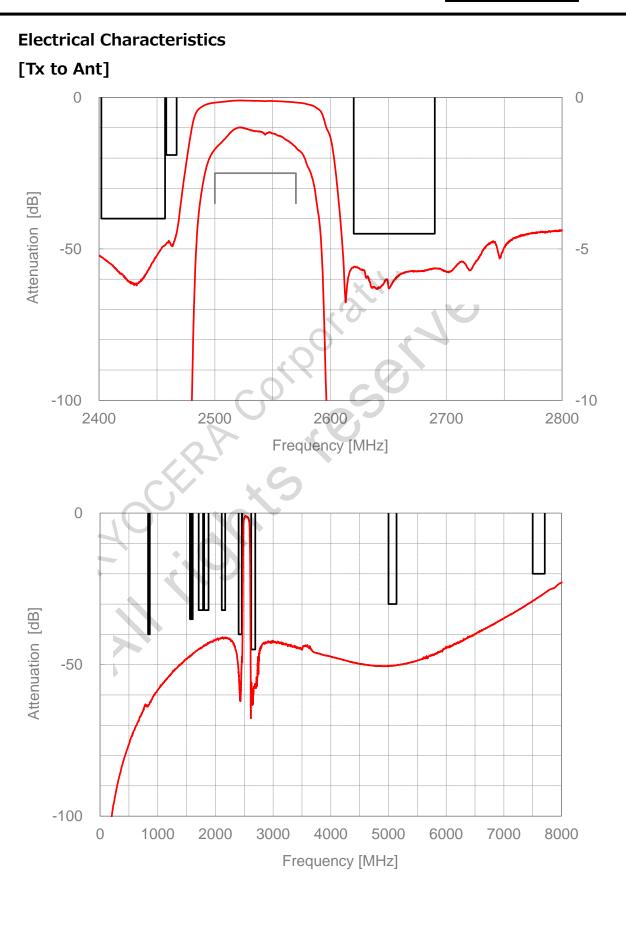
Electrical Characteristics

Items		Frequency (MHz)		Characteristics			Unit	Notes	
					Min.	Тур.	Max.		
Tx to Ant	Insertion Loss		2500	- 2570	-	1.7	2.5	dB	
	Ripple		2500	- 2570	-	0.7	2.0	dB	
	VSWR	Тx	2500	- 2570	-	1.5	2.2		
		Ant	2500	- 2570	-	1.4	2.2		
	Attenuation			- 862	40	63	-	dB	B20 Tx CA
				- 1563	35	47	-	dB	Compass
				- 1573.37	35	47	-	dB	Wideband GPS Lower
				- 1577.47	35	47	-	dB	GPS main
				- 1585.42	35	47	-	dB	Wideband GPS Upper
				- 1605.89	35	46	-	dB	GLONASS
			1/10	- 1785	32	44	-	dB	ВЗ Тх СА
				- 1880	32	43	-	dB	B3 Rx
			2110	- 2170	32	41	<u> </u>	dB	B1 Rx
				- 2466	33	49		dBint ^{*1)}	WLAN CH1-10
				- 2471	18	43	-	dBint ^{*1)}	WLAN CH11
			2458	- 2476	9	31	-	dBint ^{*1)}	WLAN CH12
			2463	- 2481	6	19	-	dBint ^{*1)}	WLAN CH13
			2403	- 2466	34	49	-	dBint ^{*1)}	WLAN CH1-10, +23 to 27deg.C
			2453	- 2471	32	44	-	dBint ^{*1)}	WLAN CH11, +23 to 27deg.C
			2458	- 2476	24	31		dBint ^{*1)}	WLAN CH12, +23 to 27deg.C
			2463	- 2481	13	19	- 1	dBint ^{*1)}	WLAN CH13, +23 to 27deg.C
			2402	- 2442	40	53		dB	ISM
			2442	- 2457	40	49	-	dB	ISM
			2458	- 2467	19	45	-	dB	ISM
			2620	- 2690	45	56	-	dB	Rx
			5000	- 5140	30	50	-	dB	2f
			1000	- 7710	20	26	-	dB	3f
Ant to Rx	Insertion Loss		2020	- 2690		1.8	2.6	dB	
	Ripple			- 2690	-	0.7	2.0	dB	
	VSWR	Rx		- 2690	<u>) -</u>	1.4	2.2		
		Ant	2020	- 2690	-	1.5	2.2		
	Attenuation			- 748	40	62	-	dB	B28 Tx CA
				- 862	40	60	-	dB	B26/B20 Tx CA
				- 915	40	59	-	dB	B8 Tx CA
		•		- 1785	40	47	-	dB	B3 Tx CA
				- 1980 - 2470		46	-	dB dB	B1 Tx CA
	•	1			41	51	-	dB dB	WLAN coexistence
				- 2570 - 6000	45 35	53 48	-	dB dB	Tx
				- 6000 - 5950	40	48 62	-	dB dB	ISM 5G
x to Rx	Isolation			- <u>5950</u> - 2570	40 51	55	-	dB dB	00 1101
IX LU KX				- 2570 - 2690	51		-	dB	

*1) dBint : Integrated any 18MHz



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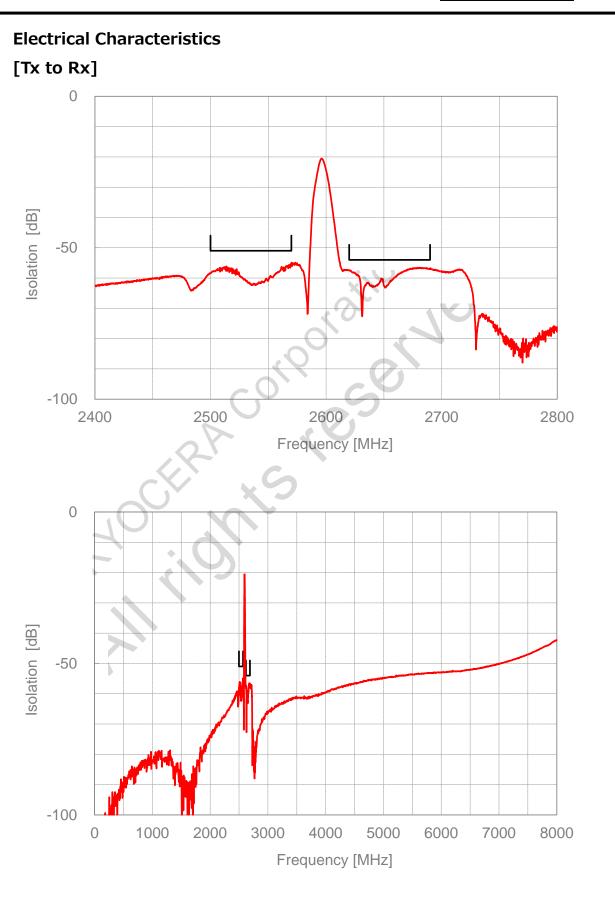




Electrical Characteristics [Ant to Rx] 0 0 Attenuation [dB] -50 -5 -100 -10 2400 2500 2600 2700 2800 Frequency [MHz] 0 Attenuation [dB] -50 -100 0 1000 2000 3000 4000 5000 6000 7000 8000 Frequency [MHz]

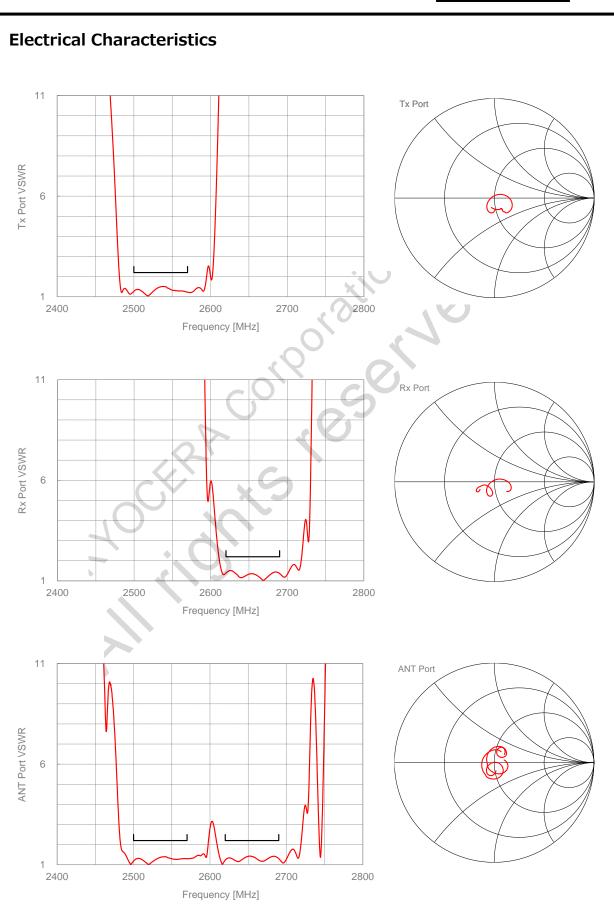
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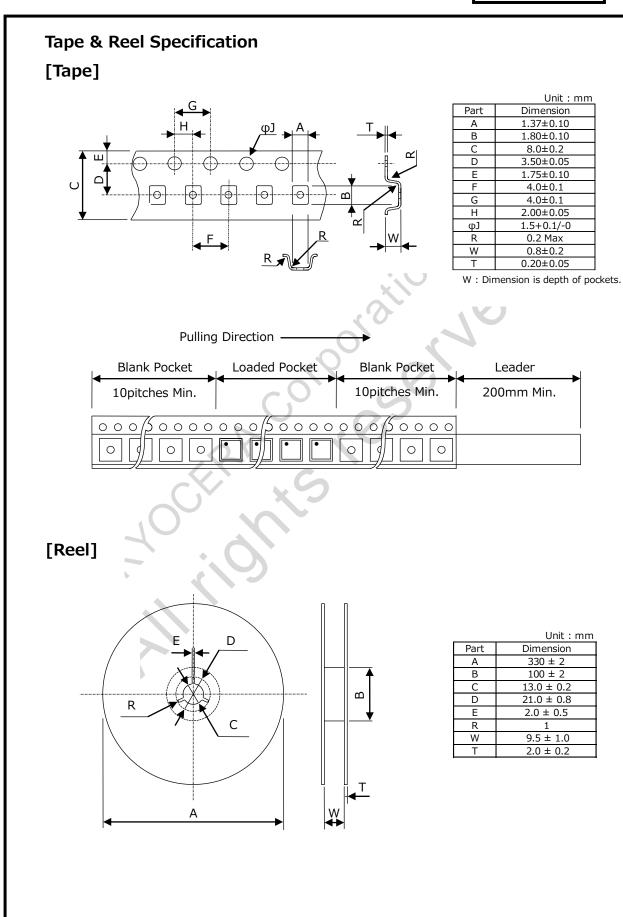
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