

RoHS Compliant

Datasheet of SAW Duplexer 1612 Band26 Unbalanced

KYOCERA Part No.: SD16-0832R8UUA1

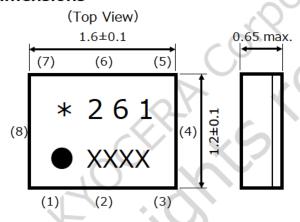
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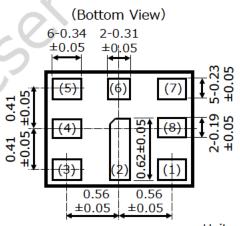
Rating

	Items	Rating	Unit	Note
Operating Temperature Range		-30 to +85	deg.C	
Storage Temperature Range		-40 to +85	deg.C	
Max Input Power		30	dBm	5,000Hours,CW,Ta=50deg.C
	Tx Band	30	dBm	5,000Hours,QPSK,LTE,Ta=50deg.C
		30	dBm	5,000Hours,DFT-s-OFDM-QPSK,Ta=50deg.C
		28.5	dBm	5,000Hours,CP-OFDM-QPSK,Ta=50deg.C
ESD Level	Machine Model	50	Volt	Complied to JESD22-A115
Moisture Sensitivity Level		3		Complied to J-STD-033B.1
Tx Port Nominal Impedance		50+12nH(series)	ohm	Unbalance
Ant. Port Nominal Impedance		50//12nH(shunt)	ohm	Unbalance
Rx Port No	minal Impedance	50+3.3nH(series)	ohm	Unbalance

Dimensions



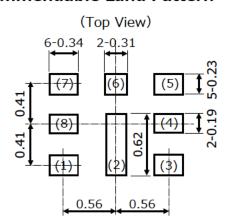
* : Identification mark
261 : Identification no.
• : Index mark of pin 1
XXXX : Production code



Unit : mm

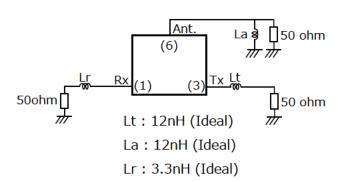
Pin No.	Function
(1)	Rx
(3)	Tx
(6)	Ant.
Others	GND

Recommendable Land Pattern



Measurement Circuit

(Top View)



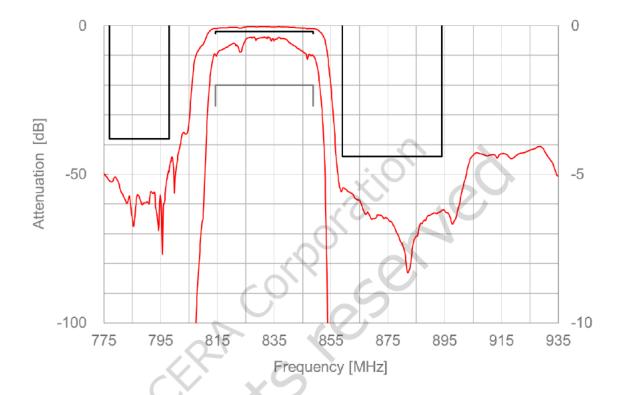


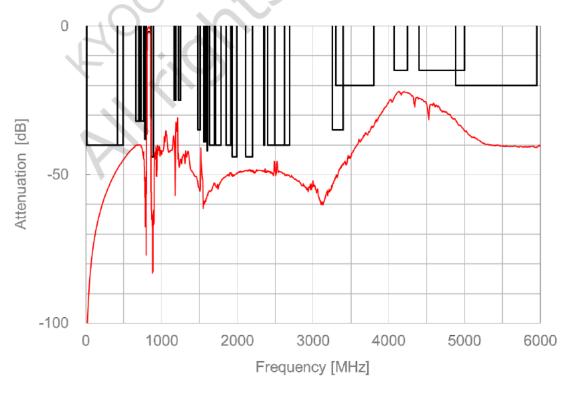
Electrical Characteristics

	ITEMS			quency MHz]	Unit	S _l	pecificatio	n max.	Notes
Turka Amb	Tuescubiem Lees		014.24	to 040.76	40				
TX to Ant	Insertion Loss			to 848.76	dB		1.1	2.0	
	Passband Ripple	1		to 848.76	dB	-	0.8	2.0	
	VSWR	Ant		to 848.76	-	-	1.6	2.0	
	***	Tx		to 848.76	-	-	1.6	2.0	
	Attenuation			to 420	dB	40	48	-	
				to 494	dB	40	45	-	
				to 698	dB	32	40	-	
				to 716	dB	32	40	-	
				to 764	dB	32	40	-	
				to 798	dB	38	48	-	
				to 894	dB	44	_ 55_	-	
				to 1187	dB	25	38	-	
				to 1250	dB	25	43	-	
				to 1510.9	dB	35	53		
				to 1563	dB	39	59	-	
			1565.42	to 1573.37	dB	39	59	-	
			1573.37	to 1577.47	dB	39	59		
			1577.47	to 1585.42	dB	39	58		
			1597.55	to 1605.89	dB	42	57	-	
			1628	to 1698	dB	40	53	-	
			1710	to 1785	dB	40	52	-	
			1850	to 1915	dB	40	49	-	
			1930	to 1995	dB	44	50	-	
			2110	to 2200	dB	44	48	-	
			2350	to 2360	dB	40	49	-	
			2400	to 2690	dB	40	46	-	
			2402	to 2494	dB	40	46	-	
			2620	to 2690	dB	40	50	-	
			3256	to 3396	dB	35	46	-	
			3300	to 3800	dB	20	34	-	
			4070	to 4245	dB	15	22	-	
			4400	to 5000	dB	15	24	-	
	1 \		4884	to 5950	dB	20	32	-	
Ant to Rx	Insertion Loss		859.24	to 893.76	dB	-	1.6	2.5	
	Passband Ripple		859.24	to 893.76	dB	-	0.7	2.0	
	VSWR	Ant	859.24	to 893.76	-	-	1.8	2.2	
	•	Rx	859.24	to 893.76	-	-	1.7	2.0	
	Attenuation		10	to 447	dB	50	60	-	
			0.01	to 45	dB	50	98	-	
			814	to 849	dB	41	59	-	
			909	to 979	dB	3	17	-	
			1427	to 1447	dB	45	55	-	
		1710	to 1785	dB	45	60	-		
		1850	to 1915	dB	45	64	-		
	<u> </u>		1920	to 1980	dB	45	63	-	
				to 2500	dB	45	57	-	
			2467	to 2494	dB	45	62	-	
			2577	to 2682	dB	45	59	-	
			4900	to 5950	dB	30	37	-	
Tx to Rx	Isolation		814.24	to 848.76	dB	55	59	-	
			824.24	to 848.76	dB	55	59	-	
				to 893.76	dB	53	56	-	
			869.24	to 893.76	dB	55	63	-	
	<u> </u>								

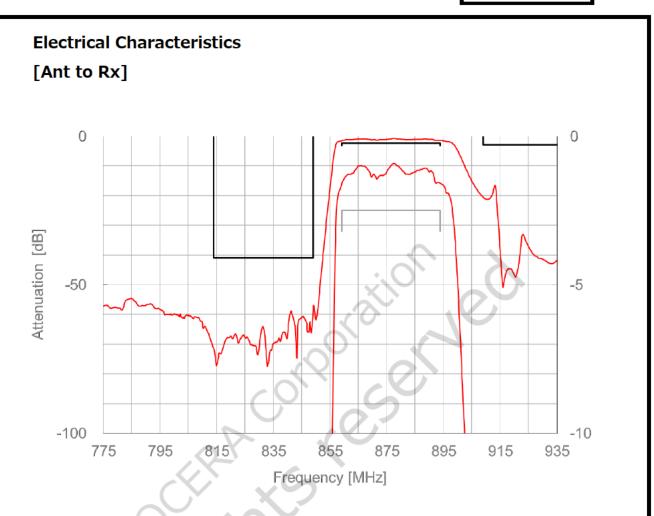


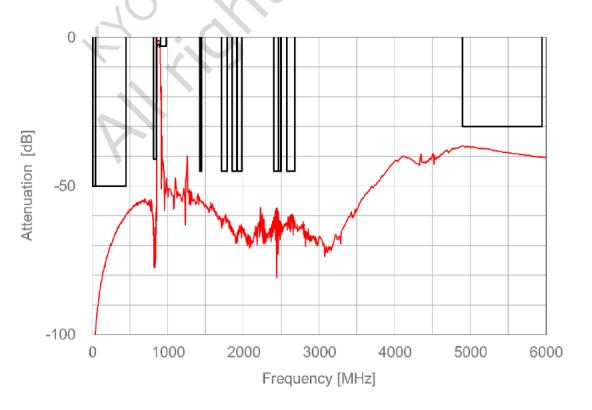
Electrical Characteristics [Tx to Ant]





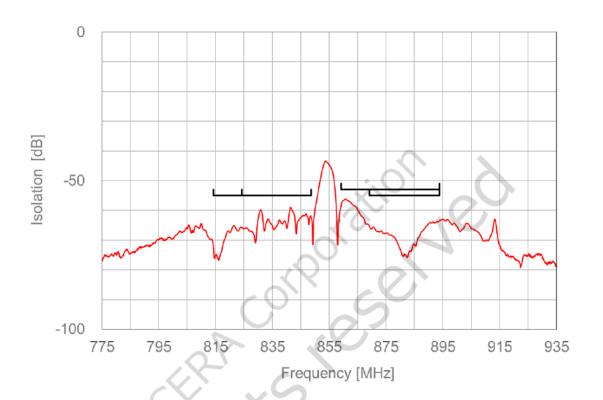


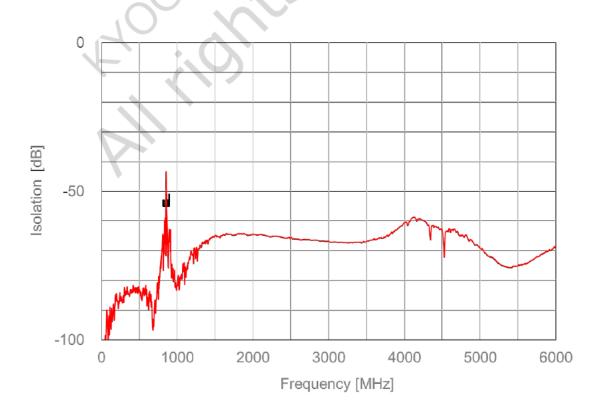




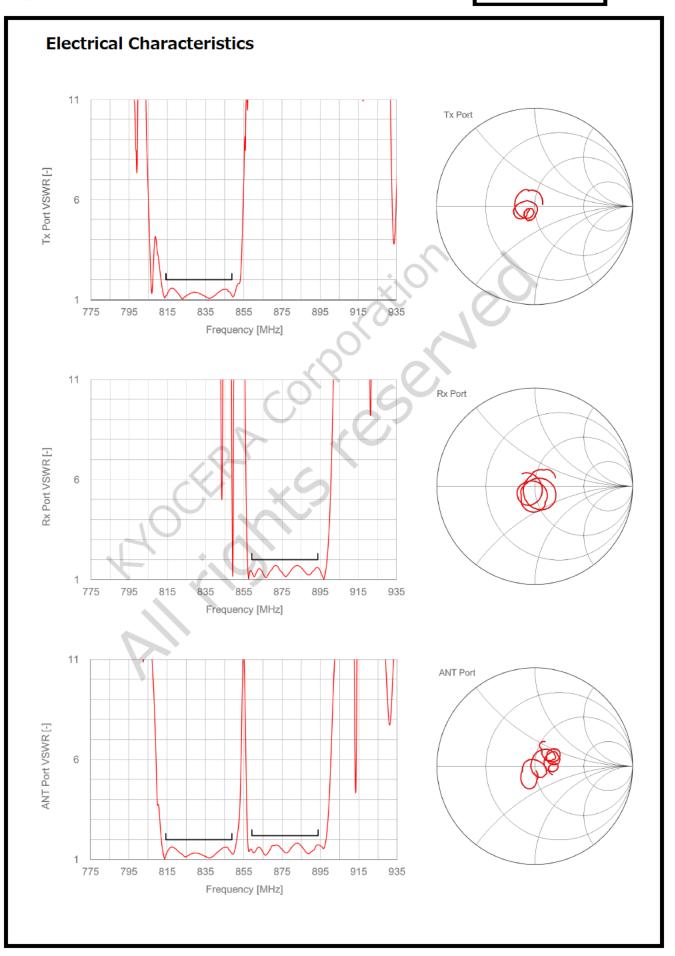


Electrical Characteristics [Tx to Rx]





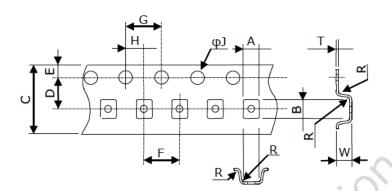






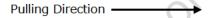
Tape & Reel Specification

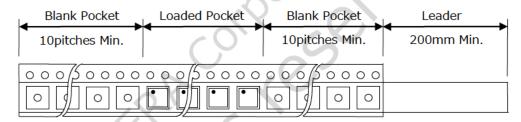
[Tape]



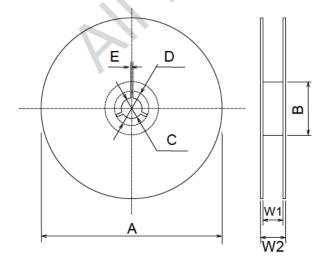
	Unit : mm
Part	Dimension
Α	1.35±0.10
В	1.80±0.10
С	8.0±0.2
D	3.50±0.05
Е	1.75±0.10
F	4.0±0.1
G	4.0±0.1
Н	2.00±0.05
φJ	1.5+0.1/-0
R	0.2 Max
W	0.8±0.2
T	0.20±0.05

W: Dimension is depth of pockets.





[Reel]



Unit: mm

Part	Dimensions		
Α	330 ± 2		
В	100 ± 1		
С	13 ± 0.2		
D	21 ± 0.8		
Е	2 ± 0.5		
W1	9.5 ± 1.0		
W2	13.5 ± 1.0		



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