

# Dual Channel Rotary Joints

Dual Channel, two concentric, electrically isolated (50 dB min.) transmission lines are designed to maintain electrical continuity for two signal paths during simultaneous rotation. Similarly a tri-channel provides three distinct isolated paths while rotated.

BAND	TRANSMISSION LINE	FREQ. RANGE GHz	MDL MODEL	VSWR	WOW MAX	INSERTION LOSS MAX	PEAK POWER AT				CW	HOUSING DIA.	HGT O.C.*	HGT I.C.*
							0	15	30	45				
							PRESSURE (PSIG)							
WR62	O.C.	15.0 -16.0	62RD16	1.20	1.03	0.20	30	60	120	-		1.81	2.00	5.00
	I.C.	15.0 -16.0		1.30	1.03	0.35	5	10	20	-				
	O.C.	14.0 - 15.0	62RD26	1.20	1.03	0.20	30	60	120	-		1.81	2.00	5.12
	I.C.	14.0 - 15.0		1.30	1.03	0.35	5	10	20	-				
	O.C.	14.5 - 15.5	62RD36	1.20	1.02	0.15	100	300	380	-		1.27	2.06	5.25
	I.C.▲	14.5 - 15.5		1.25	1.05	0.35	5	-	-	-				
	O.C.	15.7 - 17.6	62RD46	1.25	1.05	0.30			120			1.83	2.25	5.40
	I.C.	15.7 - 17.6		1.50	1.05	0.60			20					
WR75	O.C.	13.75 - 15.5	75RD36	1.30	1.02	0.10	75	165	300	-		1.27	2.06	5.25
	I.C.▲	11.4 - 12.2		1.35	1.05	0.30	5	-	-	-				
	O.C.	14.0 - 14.5	75RD26	1.20	1.10	0.20					100 W	1.27	2.06	5.25
		12.2 - 12.75		2.00	1.10	0.60								
	I.C.▲	0.95 - 1.45		1.35	1.10	0.30								
WR90	O.C.	8.5 - 9.6	90RD46	1.15	1.02	0.10	200	400	750	-		1.81	2.00	5.75
	I.C.	8.5 - 9.6		1.20	1.03	0.30	10	20	40	-				
	O.C.	8.5 - 9.6	90RD56	1.15	1.02	0.10	200	400	750	-		1.81	2.00	7.29
	I.C.■	8.5 - 0.6		1.25	1.03	0.30	5	-	-	-				
WR102	O.C.	9.8 - 10.5	102RD16	1.20	1.05	0.30		62			5.6 KW			
	I.C.	8.8 - 10.5		1.30	1.05	0.30		5.6			350 W			
WR112	O.C.	7.5 - 8.5	112RD46	1.10	1.03	0.10	300	600	1150	-		2.25	2.39	9.00
	I.C.■	7.5 - 8.5		1.25	1.03	0.30	5	-	-	-				
	O.C.	7.5 - 8.5	112RD56	1.10	1.02	0.10	300	600	1150	-		2.25	2.39	7.87
	I.C.	7.5 - 8.5		1.25	1.03	0.30	20	40	80	-				
	O.C.	8.5 - 9.5	112RD66	1.10	1.02	0.10	300	600	1150	-		2.25	2.39	9.00
	I.C.■	8.5 - 9.5		1.25	1.03	0.30	5	-	-	-				
	O.C.	8.5 - 9.6	112RD76	1.10	1.03	0.10	300	600	1150	-		2.25	2.39	7.87
	I.C.	8.5 - 9.6		1.25	1.03	0.30	20	40	80	-				
	O.C.	8.5 - 10.0	112RD86	1.15	1.05	0.20		20				2.25		
	I.C.▲	8.5 - 10.0		1.50	1.05	0.25		2						
	O.C.	7.9 - 8.4	112RD96	1.20	1.05	0.15		150			2 KW	2.25		
I.C.▲	7.25 - 7.75		1.50	1.05	0.80									

Notes: ▲ Type SMA Inner Channel

■ Type "N" Inner Channel

\* O.C. = Outer Channel (High Power, larger diameter channel)

\* I.C. = Inner Channel (Low Power, smaller diameter channel)

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BAND	TRANSMISSION LINE	FREQ. RANGE GHz	MDL MODEL	VSWR	WOW MAX	INSERTION LOSS MAX	PEAK POWER AT				CW	HOUSING DIA.	HGT O.C.*	HGT I.C.*
							0	15	30	45				
							PRESSURE (PSIG)							
WR137	O.C.	7.90 - 8.40	137RD16	1.20	1.05	0.20	400	800	1500	-		2.62	3.25	10.50
	I.C. ■	7.25 - 7.75		1.20	1.05	0.50	15	-	-	-				
	O.C.	5.85 - 6.425	137RD36	1.20	1.05	0.20					400 W	2.62		
	I.C. ■	3.625 - 4.2		1.20	1.05	0.70								
	O.C.	7.9 - 8.4	137RD26	1.20	1.05	0.20					2 KW	2.25		
	I.C. ■	7.25 - 7.75		1.20	1.05	0.70								
WR187	O.C.	5.25 - 5.75	187RD56	1.10	1.02	0.10	650	1300	2475	3575		3.00	5.00	10.50
	I.C. ■	5.25 - 5.75		1.25	1.02	0.30	15	-	-	-				
	O.C.	5.25 - 5.75	187RD66	1.10	1.02	0.10	650	1300	2475	3575		3.00	5.00	12.81
	I.C.	5.25 - 5.75		1.25	1.02	0.30	30	60	120	165				
	O.C.	5.4 - 5.9	187RD76	1.10	1.02	0.10	650	1300	2475	3575		3.00	5.00	10.50
	I.C. ■	5.4 - 5.9		1.25	1.02	0.30	15	-	-	-				
	O.C.	5.4 - 5.9	187RD86	1.10	1.02	0.10	650	1300	2475	3575		3.00	5.00	12.81
	I.C.	5.4 - 5.9		1.25	1.02	0.30	30	60	120	165				
WR284	O.C.	2.7 - 2.9	284RD36	1.15	1.03	0.10	1200	2400	4560	6600		5.12	8.00	17.80
	I.C. ■	1.2 - 1.3		1.30	1.03	0.35	15	-	-	-				
	O.C.	2.875-3.125	284RD46	1.10	1.02	0.10	1200	2400	4560	6600		5.12	8.00	17.80
	I.C. ■	2.875-3.125		1.25	1.03	0.30	15	-	-	-				
		1.015-1.105												
	O.C.	3.1 - 3.4	284RD56	1.25	1.02	0.15	1200	-	-	-		4.32	-	-
I.C. ■	1.02 - 1.09		1.30	1.03	0.50	10	-	-	-					

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 ■ Type "N" Inner Channel  
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