

# 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 PRESSURE (PSIG)				CW	HOUSING DIA.	HGT O.C.*	HGT I.C.*
							0	15	30	45				
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	5.00	
	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		
	I.C.▲	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.	9.95 - 10.05		1.30	1.05	0.30	5			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)

# Dual Channel Rotary Joints

BAND	TRANSMISSION LINE	FREQ. RANGE GHz	MDL MODEL	VSWR	WOW MAX	INSERTION LOSS	PEAK POWER AT				CW	HOUSING DIA.	HGT O.C.*	HGT I.C.*
							MAX	0	15	30				
							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	-	-	-					

Notes: ▲ Type SMA Inner Channel

■ Type "N" Inner Channel

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