

# COAXIAL CIRCULATORS AND ISOLATORS



An extensive range of stripline coaxial circulators and isolators which cover the frequency range 270MHz – 19.7GHz. Multi-port versions are available.

Custom designs are available on request.

Frequency (GHz)	TYPE NUMBER		SPECIFICATION			Operating Temperature (°C)	DIMENSIONS (mm)		
	Circulator	Isolator	Isolation (dB) min	Insertion Loss (dB) max	Return Loss (dB) min		a	b	c
<b>0.270 to 1.800GHz</b>									
0.270 - 0.330	HG 3061	HD 3061	20	0.7	19	0 to +50	62	62	26
0.380 - 0.450	HG 3051	HD 3051	18	0.7	16	0 to +50	62	62	26
0.390 - 0.470	HG 3062	HD 3062	20	0.6	19	0 to +50	62	62	26
0.405 - 0.475	HG 3052	HD 3052	20	0.7	18	0 to +50	62	62	26
0.430 - 0.512	HG 3053	HD 3053	18	0.7	16	0 to +50	62	62	26
0.600 - 0.800	PG 3071	PD 3071	20	0.5	19	-10 to +50	72	76	30
0.790 - 0.960	PG 3061	PD 3061	23	0.4	23	-10 to +60	45	50	30
0.890 - 0.960	PG 3041	PD 3041	20	0.4	19	-10 to +70	45	50	30
0.960 - 1.215	LG 3071	LD 3071	20	0.5	19	-10 to +70	35	35	19
1.025 - 1.150	LG 3041	LD 3041	18	0.6	18	-30 to +60	35	35	19
1.150 - 1.350	LG 3051	LD 3051	20	0.4	19	-30 to +60	32	32	19
1.200 - 1.400	LG 3052	LD 3052	20	0.4	19	-30 to +50	32	32	19
1.300 - 1.500	LG 3053	LD 3053	20	0.5	19	-40 to +85	32	32	19
1.340 - 1.620	LG 3061	LD 3061	18	0.3	18	0 to +50	45	50	30
1.427 - 1.535	LG 3031	LD 3031	27	0.25	26	0 to +50	45	50	30
1.470 - 1.620	LG 3042	LD 3042	20	0.4	20	0 to +55	34	34	19
1.590 - 1.800	LG 3043	LD 3043	20	0.4	20	0 to +55	34	34	19

## 1.7 to 4.2GHz

1.700 - 1.900	NG 3041	ND 3041	17	0.45	19	-40 to +55	26	29	15
1.700 - 1.900	NG 3042	ND 3042	25	0.25	25	0 to +50	40	45	19
1.700 - 2.100	NG 3061	ND 3061	25	0.25	25	0 to +50	40	45	19
1.900 - 2.100	NG 3043	ND 3043	17	0.45	19	-40 to +55	26	29	15
1.900 - 2.100	NG 3044	ND 3044	25	0.25	25	0 to +50	40	45	19
1.700 - 2.300	NG 3071	ND 3071	20	0.3	19	0 to +50	45	50	19
1.900 - 2.300	NG 3062	ND 3062	25	0.25	25	0 to +50	40	45	19
2.100 - 2.300	NG 3045	ND 3045	17	0.45	19	-40 to +55	26	29	15
2.100 - 2.300	NG 3046	ND 3046	25	0.25	25	0 to +50	40	45	19
2.300 - 2.500	SG 3041	SD 3041	17	0.45	19	0 to +50	26	29	15
2.300 - 2.500	SG 3042	SD 3042	25	0.25	25	0 to +50	40	45	19
2.350 - 2.700	SG 3051	SD 3051	20	0.5	18	-10 to +55	42	43	20
2.450 - 2.700	SG 3043	SD 3043	25	0.25	25	0 to +50	40	45	19
2.700 - 3.100	SG 3052	SD 3052	20	0.3	19	-10 to +50	26	28	19
3.200 - 3.500	SG 3044	SD 3044	25	0.25	21	-20 to +50	25	28	18
3.200 - 3.700	UG 3051	UD 3051	20	0.5	21	-40 to +70	40	40	19
3.400 - 3.900	UG 3052	UD 3052	20	0.25	21	-10 to +70	25	28	16
3.500 - 3.800	UG 3041	UD 3041	25	0.3	23	-40 to +55	25	28	16
3.600 - 4.000	UG 3042	UD 3042	25	0.3	23	-40 to +55	25	28	16
3.700 - 4.200	UG 3053	UD 3053	25	0.3	23	-40 to +55	25	28	16
3.800 - 4.200	UG 3043	UD 3043	25	0.3	23	-40 to +55	25	28	16

Frequency (GHz)	TYPE NUMBER		SPECIFICATION			Operating Temperature (°C)	DIMENSIONS (mm)		
	Circulator	Isolator	Isolation (dB) min	Insertion Loss (dB) max	Return Loss (dB) min		a	b	c

### 4.2 to 8.5GHz

4.200 - 4.800	UG 3054	UD 3054	25	0.3	23	-40 to +55	25	28	16
4.400 - 5.000	UG 3055	UD 3055	25	0.3	23	-40 to +55	25	28	16
4.500 - 5.500	UG 3061	UD 3061	20	0.4	19	-30 to +50	25	28	16
5.400 - 5.900	UG 3044	UD 3044	25	0.3	23	0 to +50	25	28	16
5.600 - 6.200	UG 3045	UD 3045	23	0.3	23	-10 to +70	25	28	16
5.900 - 6.400	CG 3041	CD 3041	25	0.3	23	-40 to +55	25	28	16
6.400 - 7.100	CG 3042	CD 3042	25	0.3	23	-40 to +55	25	28	16
7.000 - 8.000	CG 3051	CD 3051	20	0.3	19	0 to +50	16	21	16
7.100 - 7.800	CG 3043	CD 3043	25	0.3	23	-40 to +55	25	28	16
7.125 - 8.500	CG 3061	CD 3061	23	0.3	23	-10 to +65	19	21	16
7.250 - 7.750	CG 3031	CD 3031	23	0.3	23	-10 to +65	19	21	16
7.800 - 8.400	CG 3032	CD 3032	25	0.3	23	-40 to +55	25	28	16
7.900 - 8.500	CG 3033	CD 3033	25	0.3	23	-40 to +55	25	28	16

### 8.1 to 12.75GHz

8.100 - 8.600	XG 3031	XD 3031	25	0.3	26	0 to +50	16	21	16
8.200 - 10.000	XG 3061	XD 3061	23	0.3	23	0 to +50	16	21	16
8.500 - 9.600	XG 3041	XD 3041	25	0.3	23	0 to +60	16	21	16
9.000 - 9.500	XG 3032	XD 3032	25	0.25	25	0 to +50	16	21	16
9.500 - 10.500	XG 3042	XD 3042	25	0.3	23	0 to +50	16	21	16
10.000 - 10.500	XG 3033	XD 3033	25	0.3	23	-10 to +70	16	21	16
10.125 - 10.875	XG 3034	XD 3034	20	0.3	23	-10 to +60	16	21	16
10.500 - 11.500	XG 3043	XD 3043	25	0.3	23	0 to +50	16	21	16
10.700 - 11.700	XG 3044	XD 3044	2/	0.3	26	0 to +50	16	21	16
11.000 - 12.000	XG 3045	XD 3045	23	0.3	23	0 to +50	16	21	16
11.700 - 12.500	XG 3035	XD 3035	25	0.35	23	0 to +50	16	21	16
11.700 - 12.750	XG 3046	XD 3046	23	0.4	23	-10 to +40	16	21	16

### 12.5 to 19.7GHz

12.500 - 12.750	JG 3021	JD 3021	22	0.5	21	-20 to +70	13	17	13
12.680 - 13.320	JG 3031	JD 3031	20	0.4	19	-10 to +55	13	17	13
12.750 - 13.250	JG 3032	JD 3032	20	0.35	21	0 to +55	13	17	13
13.175 - 13.675	JG 3022	JD 3022	20	0.4	21	-10 to +60	13	17	13
13.200 - 14.200	JG 3033	JD 3033	20	0.5	19	-10 to +60	13	17	13
13.400 - 14.000	JG 3034	JD 3034	23	0.5	23	0 to +50	13	17	13
14.000 - 14.500	JG 3023	JD 3023	20	0.4	21	-10 to +60	13	17	13
14.000 - 16.000	JG 3051	JD 3051	20	0.5	19	0 to +50	13	17	13
14.400 - 15.300	JG 3035	JD 3035	20	0.5	19	-20 to +85	13	17	13
14.400 - 15.600	JG 3041	JD 3041	20	0.45	21	-40 to +85	13	17	13
15.400 - 16.200	JG 3036	JD 3036	25	0.45	23	+10 to +40	13	17	13
16.000 - 17.000	JG 3037	JD 3037	20	0.5	19	-40 to +85	13	17	13
16.150 - 16.850	JG 3038	JD 3038	20	0.5	19	-40 to +80	13	17	13
16.500 - 17.500	JG 3039	JD 3039	20	0.4	19	-40 to +60	13	17	13
17.700 - 19.700	JG 3042	JD 3042	20	0.5	19	-10 to +55	13	17	13

