

Coaxial Circulators



- Available in Frequencies From 450 MHz to 27 GHz
- Designed to Exceed Military and Space Environmental Requirements
- Compact, Rugged Construction, Excellent Magnetic Shield
- Custom Engineered Solutions Available



Broadband Coaxial Circulator Capabilities

FREQUENCY (GHz)	MODEL NUMBER	ISOLATION (dB) MIN	INS LOSS (dB) MAX	VSWR MAX	OPERATING TEMP(C)	PWR HANDLING PK/AVG (W)	PACKAGE CODE
0.490 - 0.710	C049071/DA	19	0.50	1.25:1	0 to +50	1000 / 300	L1
0.950 - 1.225	C095012/DA	18	0.50	1.30:1	-25 to +85	1000 / 300	L1
1.000 - 2.000	C1020/DA	15	0.70	1.40:1	0 to +50	500 / 100	G1
2.000 - 4.000	C2040/DA	18	0.50	1.30:1	-10 to +70	500 / 125	H1
2.000 - 6.000	C2060/DA	12	1.00	1.80:1	-10 to +60	500 / 10	H2
2.200 - 2.800	C2228/DA	21	0.30	1.20:1	-25 to +85	500 / 125	H1
2.600 - 5.200	C2652/DA	20	0.50	1.30:1	-25 to +85	500 / 125	H1
2.700 - 6.000	C2760/DA	16	0.60	1.45:1	-25 to +85	500 / 125	I1
2.800 - 3.800	C2838/DA	19	0.50	1.25:1	-25 to +85	500 / 125	I1
3.000 - 6.000	C3060/DA	18	0.50	1.40:1	-25 to +85	500 / 125	I1
3.000 - 6.600	C3066/DA	16	0.60	1.45:1	-25 to +85	500 / 125	I1
3.400 - 4.200	C3442/DA	21	0.30	1.20:1	-25 to +85	500 / 125	H1
3.400 - 4.200	C3442/DB	18	0.60	1.30:1	-25 to +85	500 / 65	J1
3.600 - 7.500	C3675/DA	21	0.50	1.20:1	-25 to +85	500 / 125	I1
3.700 - 8.000	C3780/DA	18	0.50	1.30:1	-25 to +85	500 / 125	I1
4.000 - 5.000	C4050/DA	21	0.40	1.20:1	-25 to +85	500 / 125	I1
4.000 - 8.000	C4080/DF	18	0.50	1.30:1	-25 to +85	500 / 125	I1
5.000 - 10.000	C500100/DA	18	0.50	1.30:1	-25 to +85	500 / 125	I1
5.000 - 11.000	C500110/DA	14	0.50	1.50:1	-25 to +85	500 / 65	J1
6.000 - 12.000	C600120/DA	15	0.60	1.40:1	-25 to +85	500 / 75	I1
6.000 - 18.000	C600180/DA	12	1.20	1.80:1	-25 to +85	500 / 50	K1
6.500 - 18.000	C650180/DA	14	1.10	1.50:1	-25 to +85	500 / 50	K1
7.000 - 9.000	C7090/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
7.000 - 10.000	C700100/DA	19	0.50	1.25:1	-25 to +85	500 / 65	J1
7.000 - 18.000	C700180/DA	12	0.90	1.65:1	-25 to +85	500 / 65	K1
7.500 - 18.000	C750180/DA	17	0.90	1.30:1	-25 to +85	500 / 65	J1
8.000 - 10.000	C800100/DC	22	0.50	1.20:1	-25 to +85	500 / 65	J1
8.000 - 12.400	C800124/DK	20	0.50	1.25:1	-25 to +85	500 / 65	J1

Specifications subject to change without notice.

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Broadband Coaxial Circulator Capabilities

FREQUENCY (GHz)	MODEL NUMBER	ISOLATION (dB) MIN	INS LOSS (dB) MAX	VSWR MAX	OPERATING TEMP(C)	PWR HANDLING PK/AVG (W)	PACKAGE CODE
8.000 - 16.000	C800160/DA	17	0.50	1.35:1	-25 to +85	500 / 65	J1
8.000 - 18.000	C800180/DA	14	0.60	1.50:1	-25 to +85	500 / 65	J1
8.000 - 20.000	C800200/DA	11	1.00	1.78:1	-25 to +85	500 / 50	K1
10.000 - 15.000	C100150/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
12.000 - 15.000	C120150/DC	21	0.50	1.20:1	-25 to +85	500 / 65	J1
12.000 - 18.000	C120180/DE	19	0.50	1.25:1	-25 to +85	500 / 65	J1
12.000 - 20.000	C120200/DA	14	0.70	1.50:1	-25 to +85	500 / 65	J1
18.000 - 22.000	C180220/DA	18	0.70	1.30:1	-25 to +85	500 / 65	J1
18.000 - 26.500	C180265/DA	13	1.00	1.58:1	-25 to +85	500 / 50	K1

Narrowband Coaxial Circulator Capabilities

FREQUENCY (GHz)	MODEL NUMBER	ISOLATION (dB) MIN	INS LOSS (dB) MAX	VSWR MAX	OPERATING TEMP(C)	PWR HANDLING PK/AVG (W)	PACKAGE CODE
0.390 - 0.450	C039045/DA	18	0.40	1.30:1	0 to +50	1000 / 300	G1
0.420 - 0.450	C042045/DA	20	0.40	1.25:1	0 to +50	1000 / 300	L1
0.800 - 0.960	C080096/DA	19	0.40	1.25:1	-25 to +85	1000 / 300	L1
0.850 - 0.950	C085095/DA	19	0.50	1.30:1	-25 to +85	1000 / 200	H1
1.000 - 1.100	C1011/DA	20	0.50	1.25:1	-25 to +85	1000 / 200	H1
1.200 - 1.400	C1214/DA	22	0.40	1.20:1	-25 to +85	1000 / 200	H1
1.435 - 1.535	C1415/DA	20	0.50	1.25:1	-25 to +85	1000 / 125	I1
1.500 - 1.600	C1516/DA	21	0.30	1.20:1	-25 to +85	1000 / 200	H1
1.600 - 1.800	C1618/DA	19	0.40	1.25:1	-25 to +85	1000 / 65	J1
1.800 - 2.100	C1821/DA	18	0.50	1.35:1	-25 to +85	1000 / 125	I1
2.000 - 2.330	C2023/DA	17	0.30	1.30:1	-25 to +85	500 / 125	I1
2.100 - 2.300	C2123/DA	23	0.50	1.15:1	-25 to +85	500 / 125	I1
2.200 - 2.300	C2223/DA	20	0.40	1.25:1	-25 to +85	500 / 125	I1
2.200 - 2.500	C2225/DA	19	0.50	1.25:1	-25 to +85	500 / 125	I1
2.500 - 2.700	C2527/DA	21	0.30	1.20:1	-25 to +85	500 / 125	I1
2.700 - 3.100	C2731/DA	23	0.40	1.15:1	-25 to +85	500 / 125	I1
3.000 - 3.500	C3035/DA	20	0.50	1.25:1	-25 to +85	500 / 125	I1
3.700 - 4.200	C3742/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
4.200 - 4.400	C4244/DA	21	0.50	1.20:1	-25 to +85	500 / 65	J1
5.150 - 5.650	C5156/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
5.400 - 5.900	C5459/DA	20	0.50	1.25:1	-25 to +85	500 / 65	J1
5.850 - 6.650	C5866/DA	21	0.30	1.20:1	-25 to +85	500 / 65	J1
6.500 - 7.200	C6572/DA	20	0.50	1.25:1	-25 to +85	500 / 65	J1
6.700 - 7.100	C6771/DA	21	0.30	1.20:1	-25 to +85	500 / 65	J1
6.710 - 7.420	C6774/DA	19	0.50	1.25:1	-25 to +85	500 / 65	J1
7.000 - 7.700	C7077/DA	20	0.50	1.20:1	-25 to +85	500 / 65	J1
7.825 - 8.475	C7884/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
8.500 - 9.600	C8596/DA	21	0.30	1.20:1	-25 to +85	500 / 65	J1

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Narrowband Coaxial Circulator Capabilities

FREQUENCY (GHz)	MODEL NUMBER	ISOLATION (dB) MIN	INS LOSS (dB) MAX	VSWR MAX	OPERATING TEMP (°C)	PWR HANDLING PK/AVG (W)	PACKAGE CODE
10.000 - 12.000	C100120/DC	20	0.50	1.25:1	-25 to +85	500 / 65	J1
10.500 - 11.300	C105113/DC	23	0.40	1.15:1	-25 to +85	500 / 65	J1
11.000 - 12.000	C110120/DA	21	0.40	1.20:1	-25 to +85	500 / 65	J1
11.000 - 12.790	C110127/DC	21	0.50	1.20:1	-25 to +85	500 / 65	J1
11.200 - 11.700	C112117/DA	23	0.30	1.15:1	-25 to +85	500 / 65	J1
12.000 - 12.800	C120128/DA	23	0.30	1.15:1	-25 to +85	500 / 65	J1
12.750 - 14.500	C127145/DA	23	0.40	1.15:1	-25 to +85	500 / 65	J1
13.000 - 15.000	C130150/DA	23	0.40	1.15:1	-25 to +85	500 / 65	J1
15.000 - 18.000	C150180/DE	21	0.50	1.20:1	-25 to +85	500 / 65	J1
19.440 - 21.500	C194215/DA	19	0.50	1.25:1	-25 to +85	500 / 65	J1

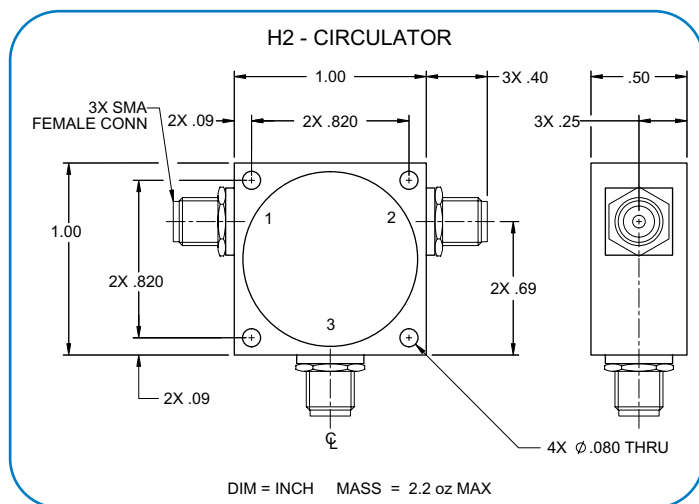
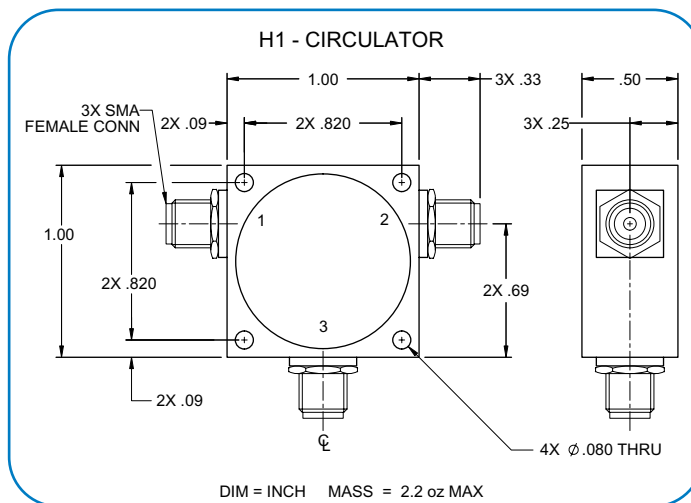
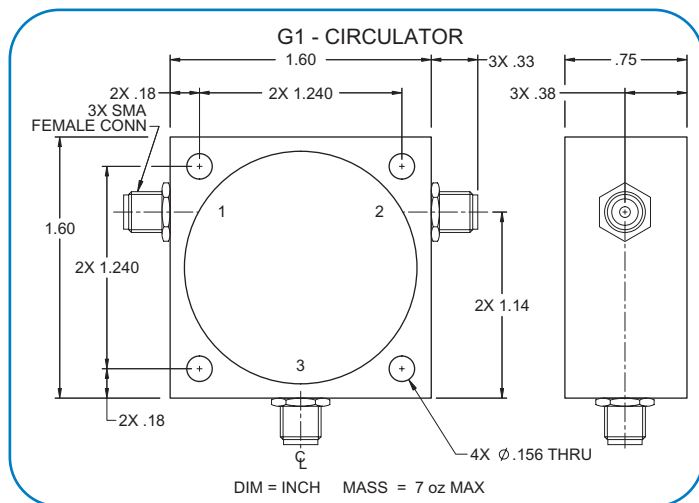
Select-A-Frequency Coaxial Circulator Capabilities

Refer to page 50 for Select-A-Frequency Instructions.

CENTER FREQUENCY (GHz)	MODEL NUMBER	BANDWIDTH (%)	ISOLATION (dB) MIN	INS LOSS (dB) MAX	VSWR MAX	OPERATING TEMP (°C)	PWR HANDLING PK/AVG (W)	PACKAGE CODE
0.500 - 0.700	C050070/S*C	5%	19	0.50	1.25:1	0 to +70	1000 / 200	H1
0.700 - 1.000	C070010/S*A	5%	19	0.50	1.25:1	-25 to +85	1000 / 200	H1
1.000 - 1.300	C1013/S*A	10%	20	0.50	1.25:1	-25 to +85	1000 / 200	H1
1.300 - 1.650	C1316/S*A	10%	20	0.50	1.25:1	-25 to +85	1000 / 200	H1
1.300 - 1.650	C1316/S*B	10%	20	0.50	1.25:1	-25 to +85	1000 / 125	I1
1.650 - 2.000	C1620/S*C	10%	20	0.50	1.25:1	-25 to +85	1000 / 125	I1
2.000 - 2.500	C2025/S*C	10%	20	0.50	1.25:1	-25 to +85	500 / 125	I1
2.500 - 3.200	C2532/S*A	10%	20	0.50	1.25:1	-25 to +85	500 / 125	I1
3.000 - 3.800	C3038/S*A	10%	20	0.50	1.25:1	-25 to +85	500 / 125	I1
3.000 - 4.000	C3040/S*A	10%	20	0.50	1.25:1	-25 to +85	500 / 65	J1
3.600 - 5.000	C3650/S*A	10%	20	0.50	1.25:1	-25 to +85	500 / 65	J1
4.800 - 6.000	C4860/S*A	10%	20	0.50	1.25:1	-25 to +85	500 / 65	J1
6.000 - 8.000	C6080/S*A	15%	23	0.50	1.20:1	-25 to +85	500 / 65	J1
8.000 - 15.000	C800150/S*A	10%	23	0.50	1.20:1	-25 to +85	500 / 65	J1
15.000 - 18.000	C150180/S*A	10%	23	0.50	1.20:1	-25 to +85	500 / 65	J1

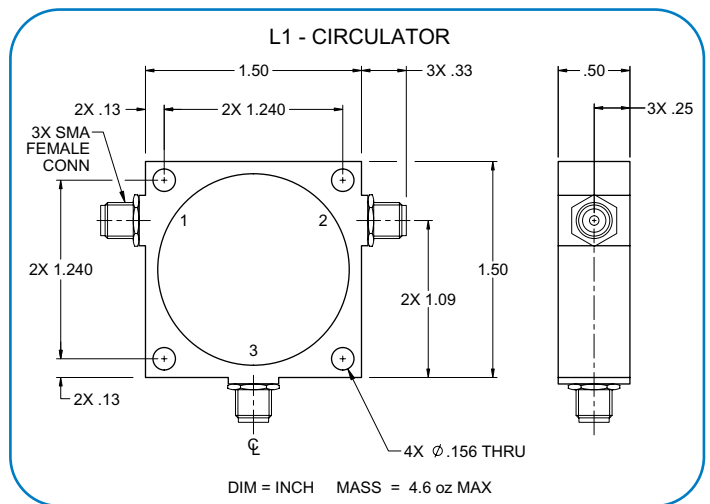
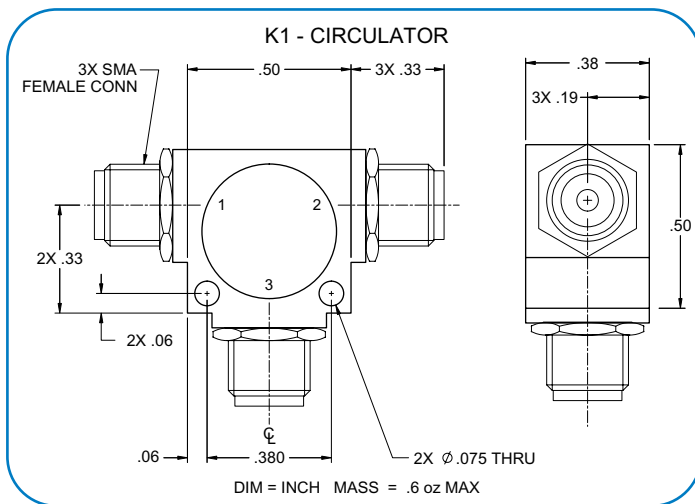
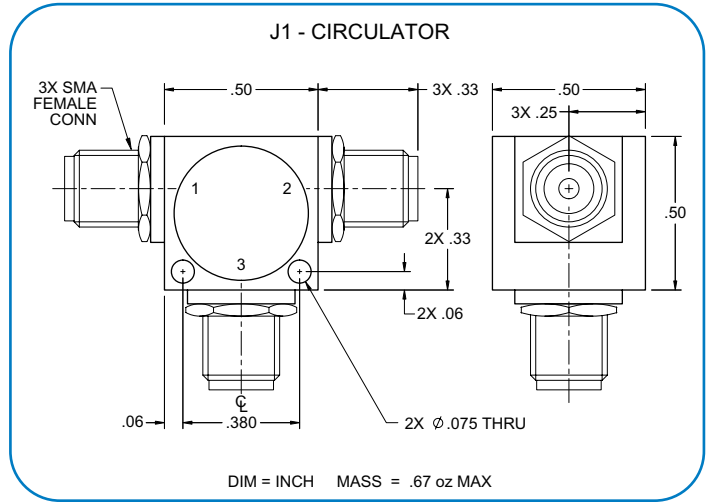
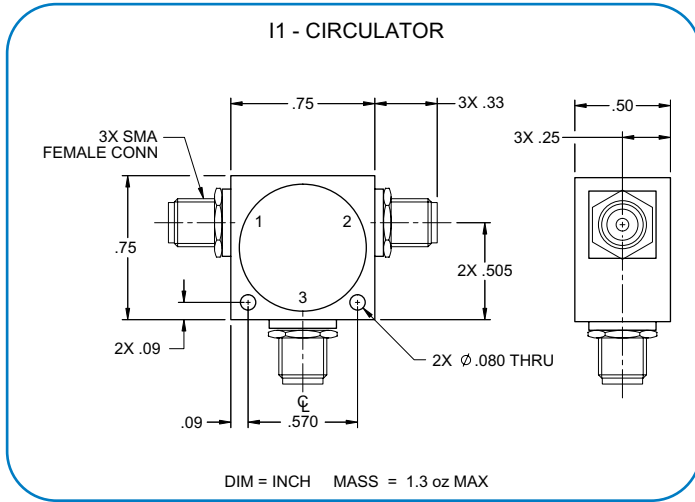
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Coaxial Circulator Package Capabilities



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Coaxial Circulator Package Drawings



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