

Isolators / Circulators

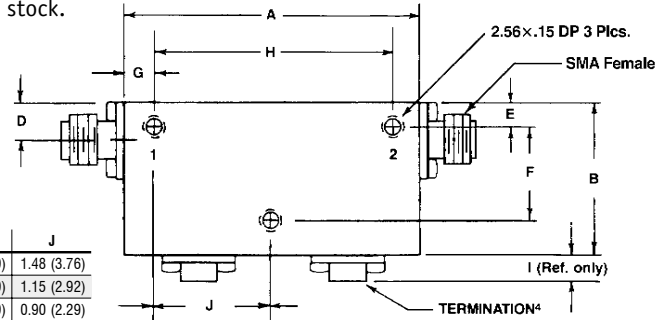
Dual Junction - Octave/Broadband - High Performance Narrow Band

Features

- Small size
- SMA female connectors standard
- Optional removable connectors for assembly integration
- Nickel plated
- SMA male connectors and other types available⁵
- Single Junction devices available
- Delivery from stock

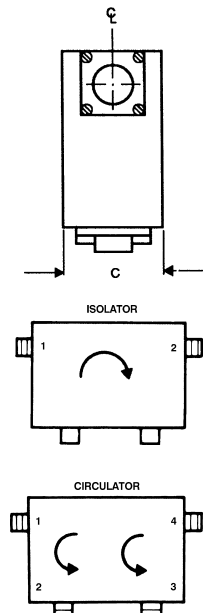
MIDISCO

dual junction isolators and circulators are available in selected frequency ranges from 0.50 to 40.0 GHz. Standard are SMA female connectors but other types are available. Each model is nickel plate finish with chem film per MIL-C-5541B class 3. Test data may be ordered. Single junction devices are available. Standard units are in stock.



Outline No.	A	B	C	D	E	F	G	H	I	J
1	3.16 (8.03)	1.62 (4.11)	0.72 (1.90)	0.26 (0.66)	0.26 (0.66)	1.265 (3.213)	0.10 (0.25)	2.960 (7.518)	0.15 (0.29)	1.48 (3.76)
2	2.50 (6.35)	1.25 (3.17)	0.72 (1.90)	0.26 (0.66)	0.26 (0.66)	0.900 (2.286)	0.10 (0.25)	2.300 (5.842)	0.15 (0.29)	1.15 (2.92)
3	2.00 (5.08)	1.00 (2.54)	0.50 (1.27)	0.25 (0.63)	0.25 (0.63)	0.675 (1.715)	0.10 (0.25)	1.800 (4.572)	0.15 (0.29)	0.90 (2.29)
4	1.24 (3.15)	0.78 (1.98)	0.50 (1.27)	0.25 (0.63)	0.25 (0.63)	0.425 (1.079)	0.10 (0.25)	1.040 (2.642)	0.15 (0.29)	0.52 (1.32)
5	1.00 (2.54)	0.70 (1.78)	0.50 (1.27)	0.25 (0.63)	0.18 (0.46)	0.455 (1.156)	0.08 (0.20)	0.840 (2.134)	0.15 (0.29)	0.42 (1.07)
6	3.16 (8.03)	1.62 (4.11)	0.70 (1.78)	0.25 (0.63)	0.25 (0.63)	1.265 (3.213)	0.10 (0.25)	2.960 (7.518)	0.15 (0.29)	1.48 (3.76)
7	2.50 (6.35)	1.25 (3.17)	0.70 (1.78)	0.25 (0.63)	0.25 (0.63)	0.900 (2.286)	0.10 (0.25)	2.300 (5.842)	0.15 (0.29)	1.15 (2.92)
8	1.72 (4.37)	0.98 (2.49)	0.50 (1.27)	0.25 (0.63)	0.25 (0.63)	0.625 (1.587)	0.10 (0.25)	1.520 (3.861)	0.15 (0.29)	0.76 (1.93)

Frequency ¹ GHz	Model No. Isolator	Model No. Circulator	Isolation dB Min Per Jct.	Insertion Loss dB Max. Per Jct.	VSWR Max.	Size In. (cm) Outline No.	Approx. Weight oz. (gm.)	Isolator Power (Watts) ^{2,6}		Operating Temperature ³ Range °C
								Avg.	Peak	
2.0-4.0	M4I2040	M4C2040	18	0.50	1.30	6	6.9 (195)	2	20	0 to +50
2.0-6.0	M4I2060	M4C2060	14	0.80	1.50	6	6.9 (195)	2	20	0 to +50
2.0-8.0	M4I2080	M4C2080	11	1.40	1.85	6	6.9 (195)	2	20	-10 to +65
2.6-5.2	M4I2652	M4C2652	18	0.50	1.30	6	6.9 (195)	2	20	0 to +50
3.0-6.0	M4I3060	M4C3060	19	0.40	1.30	7	4.0 (115)	2	20	0 to +50
3.5-7.0	M4I3570	M4C3570	18	0.40	1.30	3	2.3 (65)	2	20	0 to +50
3.7-8.3	M4I3783	M4C3783	17	0.60	1.35	3	2.3 (65)	2	20	0 to +50
4.0-8.0	M4I4080	M4C4080	20	0.40	1.25	3	2.3 (65)	2	20	-10 to +60
6.0-12.4	M4I6012	M4C6012	17	0.60	1.35	4	1.9 (55)	2	20	-10 to +60
7.0-11.0	M4I7011	M4C7011	20	0.40	1.25	8	1.9 (55)	2	200	-30 to +85
7.0-12.4	M4I7012	M4C7012	20	0.40	1.25	8	1.9 (55)	5	500	-30 to +85
7.0-18.0	M4I7018	M4C7018	17	1.00	1.50	5	1.6 (45)	2	30	-10 to +85
8.0-12.4	M4I8012	M4C8012	20	0.40	1.25	8	1.9 (55)	2	200	-30 to +85
8.0-16.0	M4I8016	M4C8016	17	0.60	1.35	5	1.6 (45)	2	30	-20 to +65
8.0-18.0	M4I8018	M4C8018	16	0.80	1.45	5	1.6 (45)	2	30	-10 to +85
8.0-20.0	M4I8020	M4C8020	15	1.00	1.45	5	1.6 (45)	2	30	-20 to +65
10.0-20.0	M4I1020	M4C1020	16	0.70	1.40	5	1.6 (45)	2	30	-20 to +65
12.0-18.0	M4I1118	M4C1118	20	0.50	1.25	5	1.6 (45)	2	30	-20 to +65
18.0-26.5	M4I1826	M4C1826	18	0.80	1.40	5	1.6 (45)	2	30	-20 to +65
20.0-30.0*	M4I2030	M4C2030	18	0.70	1.40	5	1.6 (45)	2	30	-20 to +65
20.0-40.0*	M4I2004	M4C2004	13	1.20	1.60	5	1.6 (45)	2	30	-20 to +65
26.5-40.0*	M4I2640	M4C2640	14	1.00	1.50	5	1.6 (145)	2	30	-20 to +65
0.5-0.55	M4I0555	M4C0555	20	0.40	1.25	1	9.3 (265)	2	750	-20 to +65
0.525-0.6	M4I0560	M4C0560	20	0.40	1.25	1	9.3 (265)	2	750	-20 to +65
0.6-0.7	M4I0670	M4C0670	20	0.40	1.25	1	8.9 (253)	2	750	-20 to +65
0.7-0.8	M4I0780	M4C0780	20	0.40	1.25	1	8.9 (253)	2	750	-20 to +65
0.8-0.9	M4I0890	M4C0890	20	0.40	1.25	2	5.5 (155)	2	750	-20 to +65
0.95-1.225	M4I9525	M4C9525	20	0.40	1.25	2	5.5 (155)	2	500	-20 to +65
1.2-1.4	M4I0112	M4C0112	20	0.40	1.25	2	5.2 (147)	2	500	-20 to +65
1.4-1.6	M4I0116	M4C0116	20	0.40	1.25	2	3.8 (101)	2	500	-20 to +65
1.6-1.8	M4I0118	M4C0118	20	0.40	1.25	3	3.8 (107)	2	350	-20 to +65
1.7-2.0	M4I0120	M4C0120	20	0.40	1.25	3	3.8 (107)	2	350	-20 to +65
2.0-2.3	M4I0223	M4C0223	20	0.40	1.25	3	3.8 (107)	2	350	-20 to +65
3.7-4.2	M4I3742	M4C3742	23	0.15	1.15	3	2.6 (73)	2	20	-30 to +65
4.4-5.0	M4I4450	M4C4450	23	0.15	1.15	3	2.6 (73)	2	20	-30 to +65
5.4-5.9	M4I5459	M4C5459	23	0.15	1.15	4	1.9 (53)	2	20	-30 to +65
5.9-6.4	M4I5964	M4C5964	23	0.15	1.15	4	1.9 (53)	2	20	-30 to +65
7.5-10.0	M4I7510	M4C7510	20	0.50	1.25	5	1.3 (37)	2	50	-30 to +65
7.7-8.4	M4I7784	M4C7784	23	0.20	1.20	5	1.3 (37)	2	50	-30 to +65
8.5-9.6	M4I8596	M4C8596	23	0.20	1.20	5	1.3 (37)	2	50	-30 to +65
9.2-10.5	M4I9211	M4C9211	23	0.20	1.20	5	1.3 (37)	2	50	-30 to +65
10.7-11.7	M4I1112	M4C1112	23	0.20	1.20	5	1.3 (37)	2	50	-30 to +65
11.7-12.7	M4I1213	M4C1213	23	0.20	1.20	5	1.3 (37)	2	50	-30 to +65



1. Other frequencies available on request
2. Consult factory for power handling capability of circulator.
3. Storage temperature range is -55°C to 100°C.
4. Connector and termination locations are interchangeable.
5. SMA Male connectors are available by adding suffix "M1", "M2", "M3", or "M4" for corresponding port number(s). Example: M4I8018M1

* Supplied with "K" female connectors.
K connector trademark of Wiltron Co.

⁶ Isolator powers shown are reflected powers. Average forward power for =/ < 2 GHz units is typically 150 watts. For units > 2 GHz it is usually in the range of 20 to 30 watts. Consult factory for specific models.