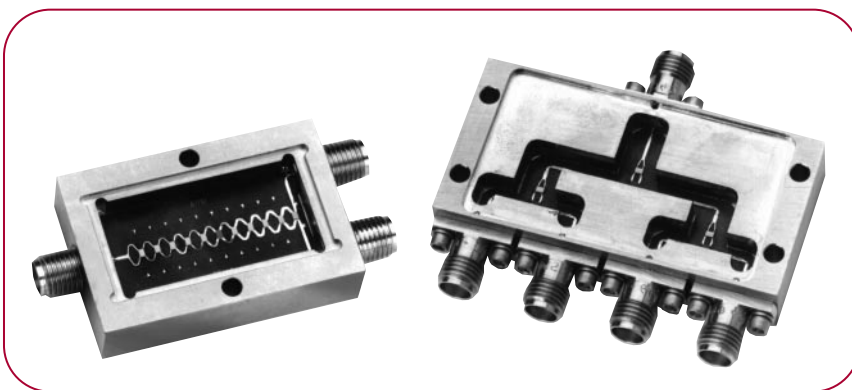


BROADBAND POWER DIVIDERS

FEATURES

- Multioctave bands
- Microstrip construction
- Low loss
- High isolation
- Small size



MITEQ offers a broad range of Wilkinson-type power dividers covering multioctave bands from 2 to 18 GHz, and custom power dividers up to 40 GHz are also available. Power dividers up to 16-way are available as standard products. These products feature excellent amplitude, phase balance and lowest possible loss. We can provide these components as drop-in functions for those applications that require higher levels of integration. We offer MIL-STD-883 screening and custom connector options.

Divide By	Model Number	Frequency Range (GHz)	Insertion Loss (dB, Max.)	Isolation (dB, Min.)	Amplitude Balance ($\pm$ dB, Max.)	Phase Balance ($\pm$ Deg., Max.)	VSWR In (Max.)	VSWR Out (Max.)	Outline
STANDARD, MULTIOCTAVE BAND MODELS									
2	D0238	2–18	1.2	20	0.25	4	1.45:1	1.35:1	2
	D0239	2–26.5	2.5	20	0.5	5	1.6:1	1.5:1	2
	D0237	2–12.4	0.6	20	0.3	3	1.4:1	1.35:1	3
	D0236	2–8	0.4	20	0.2	2	1.4:1	1.3:1	3
	D0258	5–18	0.6	20	0.2	3	1.4:1	1.4:1	3
	D0249	4–26.5	1.2	18	0.4	4	1.6:1	1.6:1	3
	D0279	12–26.5	1	18	0.2	3	1.6:1	1.6:1	3
4	D2089	18–40	1	17	0.5	5	1.8:1	1.7:1	3
	D0438	2–18	2.5	20	0.4	5	1.6:1	1.4:1	4
	D0437	2–12.4	1.7	20	0.35	4	1.5:1	1.4:1	4
	D0436	2–8	0.9	20	0.35	4	1.5:1	1.25:1	4
	D0458	5–18	1.5	20	0.35	5	1.6:1	1.4:1	5
	D0449	4–26.5	2.5	16	0.5	6	1.7:1	1.6:1	5
	D0479	12–26.5	1.8	16	0.5	6	1.75:1	1.6:1	5
8	D0489	18–40	2.5	17	0.5	5	1.8:1	1.7:1	5
	D0837	2–12.4	2.8	20	0.4	5	1.6:1	1.4:1	6
	D0836	2–8	1.5	20	0.4	5	1.6:1	1.25:1	6
	D0858	5–18	2	20	0.5	7	1.7:1	1.4:1	7
	D0849	4–26.5	3.7	16	0.6	7	1.8:1	1.6:1	7
	D0879	12–26.5	2.4	16	0.5	7	1.8:1	1.6:1	8
	D0889	18–40	3.5	17	0.5	5	1.8:1	1.7:1	8
16	D1636	2–8	2.2	20	0.5	5	1.7:1	1.25:1	9
	D1658	5–18	3.5	20	0.5	7	1.8:1	1.5:1	10
OPTIMIZED PERFORMANCE MODELS									
2	119732	2.8–3.2	0.5	20	0.2	3	1.4:1	1.4:1	Contact factory
	127071	15.7–16.2	0.5	20	0.2	10	1.5:1	1.5:1	Contact factory
4	123287	8–14	1.2	20	0.25	3	1.4:1	1.4:1	Contact factory
	125965	8–12.4	1.1	20	0.35	4	1.5:1	1.5:1	Contact factory
8	126459	0.95–1.45	0.8	20	0.5	6	1.45:1	1.45:1	Contact factory

Electrical performance of multioctave models can be optimized over narrower bandwidths for a particular parameter. Electrical options include: Lower insertion loss, lower VSWR, higher isolation. Custom packaging also available. Examples of custom models previously shipped are shown below. Consult factory for options.

Power handling in a splitter application: 30 W CW @ load VSWR < 1.2:1, 10 W CW @ load VSWR < 2:1.

ENVIRONMENTAL CONDITIONS

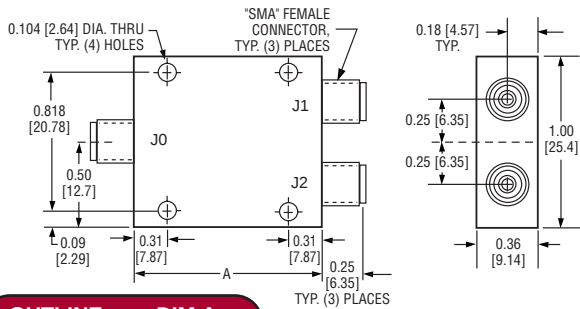
Operating temperature 0 to 70°C

Storage temperature -30 to +85°C

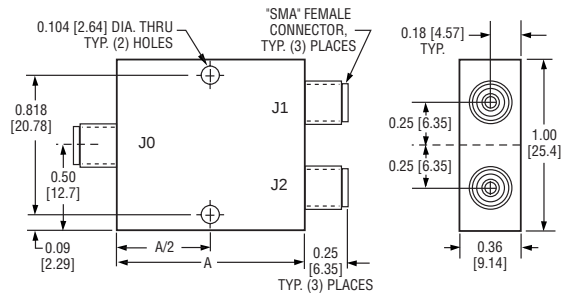
Power handling P_{in} maximum equals 20 W into 1.2:1 load, all ports.

BROADBAND POWER DIVIDER OUTLINE DRAWINGS

1, 2 and 3

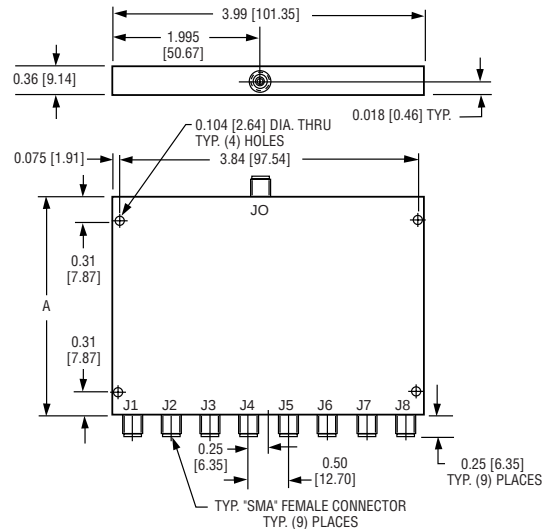


OUTLINE	DIM A
1	3.5 [88.90]



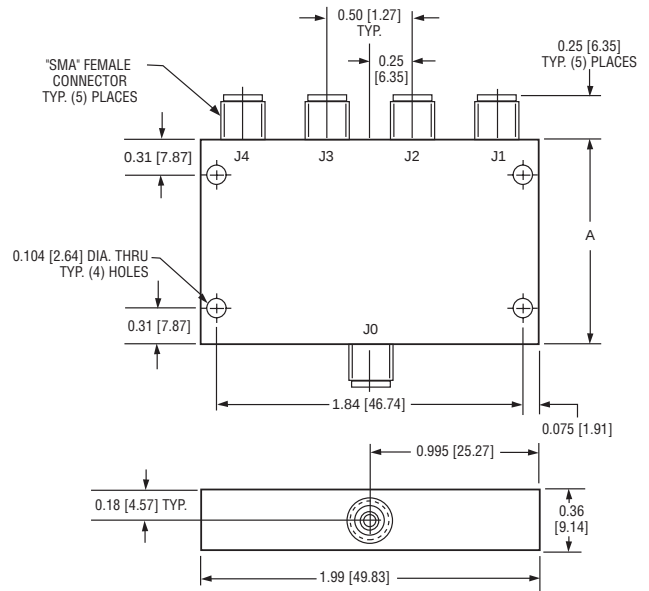
OUTLINE	DIM A
2	1.5 [38.10]
3	1.02 [25.91]

6, 7 and 8



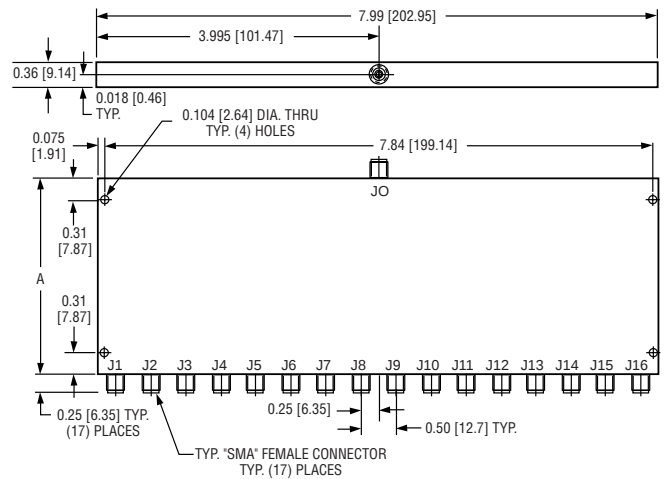
OUTLINE	DIM A
6	3.5 [88.90]
7	2.2 [55.88]
8	1.75 [44.45]

4 and 5



OUTLINE	DIM A
4	2.5 [63.50]
5	1.4 [35.56]

9 and 10



OUTLINE	DIM A
9	5.5 [139.70]
10	2.9 [73.66]

GENERAL NOTES:

- Dimensions shown in brackets [] are in millimeters.
- Unless specified, all connectors are type SMA female field replaceable.
- Tolerance as follows:
 .xx = ± 0.01 [.xx = ± 0.25]
 .xxx = ± 0.005 [.xxx = ± 0.13]



MITEQ

TEL: (631) 439-9137
FAX: (631) 436-9219
E-MAIL: jpierro@miteq.com

BROADBAND POWER DIVIDERS

DATE _____

COMPANY _____

ADDRESS _____

CONTACT _____

TEL. _____

FAX _____

E-MAIL _____

For additional technical, price and delivery information, please copy, complete and mail or fax this form to (631) 436-9219, or call John Pierro at (631) 439-9137.

SPECIFICATION PARAMETER	REQUIREMENT 1	REQUIREMENT 2	REQUIREMENT 3
Frequency range (GHz)			
Divide by			
Insertion loss (dB, maximum)			
Isolation (dB, minimum)			
Amplitude balance ($\pm$ dB, maximum)			
Phase balance ($\pm$ deg., maximum)			
Input/output VSWR (maximum)			
Connectors			
Operating temperature			
Quantity			

Special requirements, such as special testing/screening, or specific operating environment may be listed below:

PLEASE SEND ADDITIONAL INFORMATION ON THE FOLLOWING MITEQ PRODUCTS:

- ☐ Amplifiers
- ☐ Mixers
- ☐ Multipliers
- ☐ Frequency Sources

- ☐ Passive Power Components
- ☐ IF Signal Processing Components
- ☐ Integrated Assemblies
- ☐ SATCOM Products



100 Davids Drive, Hauppauge, NY 11788
TEL.: (631) 436-7400 • FAX: (631) 436-9219/436-7430
www.miteq.com