

180° Hybrids (Power Divider/Combiner)

4-Port Stripline Connectorized Packages

Features

- Sum (Σ) and Delta (Δ) Ports
- Excellent Amplitude, Phase Tracking
- SMA connectors are standard.
- Insertion Loss = 0.6 dB (MDC8225 = 0.8 dB)
- 80 Watts (MDC8226A= 50 watts)

A signal applied to the Δ port of a Midisco 0/180° hybrid will provide equal level signals at outputs 2 and 3 that are 180° out of phase. A signal applied to the Σ port will also provide equal level outputs at ports 2 and 3, but they will be in phase. In addition to the units shown, Midisco can supply similar stripline units rated at 10 watts as well as 3-port units with the Σ port internally terminated. Low frequency units in flat packs, DIP packs, and SMD's are also available. Call factory.

Selected Models Performance

Model	Freq. (GHz)	VSWR	Isolation
MDC8224	1 - 2	1.40:1	22 dB min.
MDC8225	2 - 4	1.60:1	20 dB min.
MDC8226A	5.4 - 5.9	1.50:1	18 dB min.
MDC8226	4 - 8	1.90:1	18 dB min.

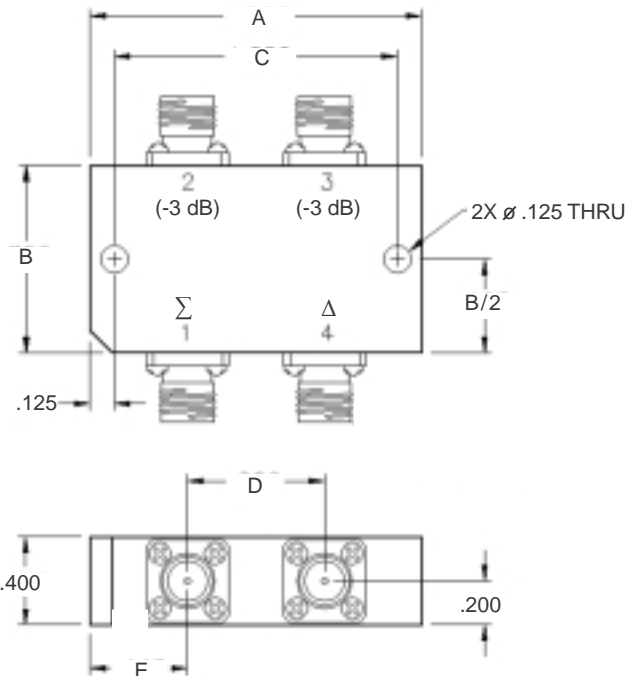
Dimensions (see figure)

Model	A	B	C	D	E
MDC8224	2.14	1.50	1.89	1.50	.32
MDC8225	2.45	1.25	2.20	1.24	.60
MDC8226A	1.60	1.60	1.40	*	*
MDC8226	1.50	.85	1.28	.62	.44

* Type N. Call for form factor and dimensions.

Notes:

1. Mounting hole offset from edge is .110 for MDC8226.
2. Model MDC8277 (4-12.4 GHz) available @ 1.9 x 1.25 x .40 (Call Factory)



Additional Midisco New Products

Attenuators, Switches, Dividers, Modulators, and much more!

In addition to the products listed here and in our full line catalog, Midisco can supply numerous other types of RF and microwave components, which are either expansions of existing product lines, or additional item types. Many of these are shown below. This list can never be complete, since new products are added on a regular basis. Please call the factory for products not shown.

- 8- Bit Broadband Digital Attenuators, up to 16 GHz (32 dB, 64 dB range, TTL Control, +/- 5 VDC)
- SP8T Solid State Switches: 0.3 – 12 GHz reflective; 0.5 – 8 GHz absorptive (100 nanosecond. switching).
- Expanded line of 12-W, 16-W, and 32-W Low and High Frequency Power Dividers.
- Phase Shifters, Analog, Low Frequency
- Modulators and Demodulators (I & Q, Quadrature, Bi-Phase)
- Greatly expanded line of adapters and special connectors

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