

New Products

Coaxial, Waveguide to 50 GHz

Catalog Additions

- New N, 2.9 mm Resistive Dividers
- 2, 3, 4, 5-Way 50 Ω & 75 Ω Resistive Dividers
- Adapto-Pads
- Medium and High Power Fixed Attenuators
- High Frequency, Specialty Attenuators
- Waveguide Terminations, Attenuators
- Continuously Variable Attenuators
- Medium, High Power Coaxial Terminations
- 3.5 mm Phase Equal Adapter Kit
- F Series Calibration Kit
- 2.4-2.9 mm Inter-Series Adapters
- Broadband 2.9 mm DC Blocks
- Broadband Bias Tees
- Doubly, Triple Balanced Mixers
- 50, 75 Ω Transformers, Matching Pads
- Coaxial Delay Lines
- Pin Diode Switches
- LMR, VNA Cable Assemblies

This section contains MIDISCO products that do not appear in the main body of the catalog. They are either new products or expansions of an existing product line, or products that we have been supplying on an ongoing basis, but were never in the full line catalog. Understand that even with these updates, no catalog can come close to fully summarizing our capability or full breadth of products. In addition to the featured new products, we can provide many additional products as discussed below. If you don't see what you want, please call. There is a good likelihood we can supply it.

The table to the left summarizes the products that are in this section. In addition to those listed, MIDISCO can supply a much broader range of RF and Microwave products. In addition to the pin diode switches shown, we also supply electro-mechanical and transfer switches. Among other major MIDISCO products are programmable attenuators with either digital or analog control, and relay controlled units that are GPIB/RS232/Ethernet compatible.

New Products

Resistive Power Dividers

Broadband - DC to 18 GHz (Type N) DC-26.5 GHz (2.9 mm)

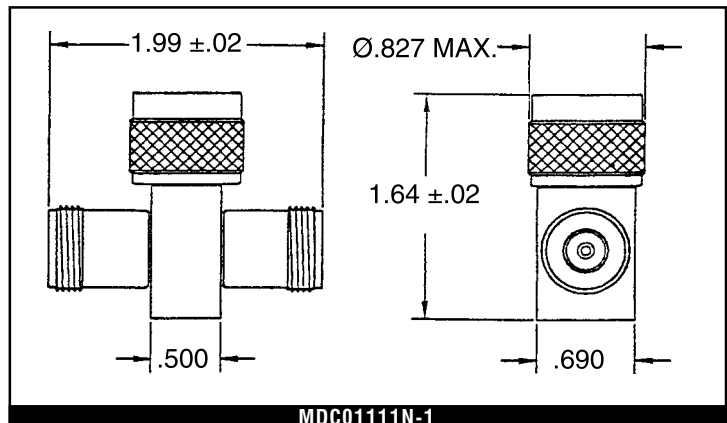
Features

- Broadband
- -55° C to +125° C
- 50 Ω Impedance
- 1-Watt CW, 1 kW Peak
- Connector Options
- Stainless Steel Connectors
- Small Size
- All Port Symmetry

MIDISCO Resistive Power Dividers utilize a mature design to provide excellent output power symmetry over frequency with minimum insertion loss above the theoretical 6-dB split. The MDC01111N- (*) shown below and the MDC01111- (*)-(**) on the next page complement the MDC1193F3, and the MDC1191 and MDC1192 series shown on page 35 of this catalog. Phase tracking between outputs is $\pm 2^\circ$ nominal on the MDC01111N- (*), and $\pm 3^\circ$ and $\pm 4^\circ$ on the MDC01111- (*)-(**) at 18 GHz and 26.5 GHz respectively.

DC to 18 GHz, Type N Connectors

Model Number	Connectors
MDC01111N-1 (Shown)	Type N (1 male 2 females)
MDC01111N-2 (Not Shown)	Type N (3 females)
Max. VSWR DC-10 GHz: 1.25:1 10-18 GHz: 1.35:1	
Maximum Insertion Loss (dB) DC-10 GHz: 1.2* 10-18 GHz: 1.5*	
*Above theoretical 6-dB split	



Resistive Power Divider

DC to 26.5 GHz. 2.9 mm Connector Configuration Options

New Products

Model Number	Max. VSWR/Insertion Loss (dB)		
	DC-26.5 GHz	DC-18 GHz	DC-12.4 GHz
MDC01111-1-(**)	1.40/2.5*	1.30/1.5*	1.20/6 Nominal
MDC01111-2-(**)	NA	1.30/1.5*	1.20/6 Nominal
MDC01111-3-(**)	NA	NA	1.20/6 Nominal

*: Loss above theoretical 6-dB split

**: Insert Code for connector configuration required

F3: 3 female

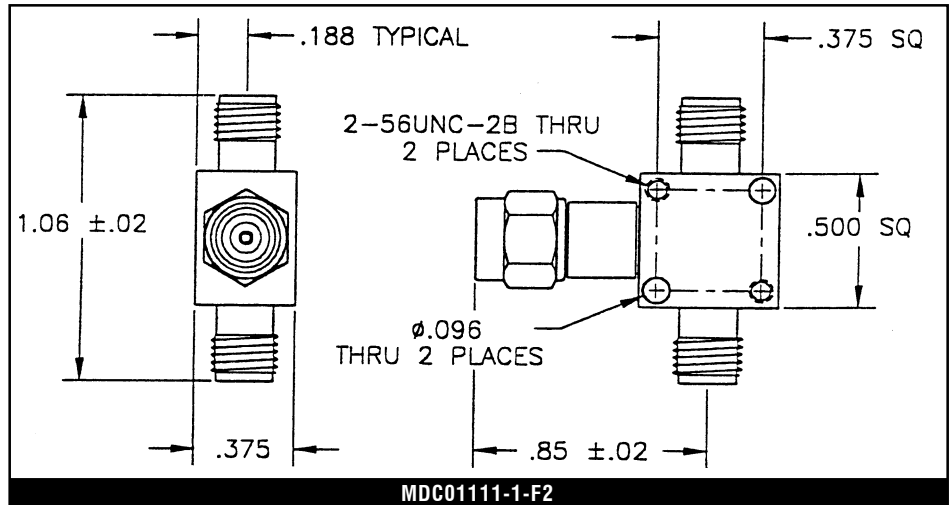
F2: 2 female, 1 male (standard, shown)

M3: 3 male

Note 1: 2.9 mm connectors mate with all SMA, KTM, and 3.5 mm connectors.

Note 2: For SMA connectors, add suffix "S" to basic model number. Standard frequencies for SMA models are 18, 12.4 and 6 GHz (-1, -2, -3 respectively). For example, an SMA unit with 2 females and 1 male connector operating to 18 GHz is model MDC01111S-1-F2.

TM: The K connector is a trademark of Wiltron Corp.



Adapto-Pads

Type N to SMA Inter-Series Attenuators - DC to 18 GHz

- DC to 18 GHz Operation
- 0-20 dB Available Values
- Accuracy +/-0.3 dB, 1 to 6 dB
+/-0.5 dB, 7 to 20 dB
- VSWR (Max): 1.10:1 to 4 GHz; 1.20:1 from 4 to 10 GHz; 1.30:1 from 10 to 18 GHz.
- Input Power: 2-Watts CW, 250-Watts Peak
- 50 Ω Impedance
- Stainless Steel Connectors
- Operating Temperature -65° C to +125° C

Model Number: (dB)
(dB): Insert dB value required

