

# 50 to 75 Ohm Transformers, Minimum Loss Matching Pads

## Connector Frequency Range Options

### Features

- Transformers and Matching Pads available.
- 1-watt average power, all units
- 75 Ohm F series available
- -20° C to +85° C Operation
- Call factory for configurations not shown.

### MIDISCO

addresses the need to provide controlled 50 to 75 Ohm impedance transformations in fielded systems and laboratory test environments. We provide off-the-shelf minimum-loss matching pads, as well as matching transformers. Transformers have a lower insertion loss than minimum-loss pads, but have a finite bandwidth. The most common connector series that are available in 50 and 75 Ohm impedances are type N, TNC, and BNC. These are the thrust of MIDISCO's product line. Shown below is a sampling of our standard product line. Many designs are custom. Please call the factory with your requirements.

#### MDC1529-# (Minimum Loss Matching Pads):

Insertion Loss: 5.7 +/-0.5 dB (+/-0.3 dB for -11, -12 @ Frequencies =/< 1.5 GHz)

\*: VSWR is worst case @ max. frequency. In all cases, it is 1.20 max. to 1 GHz, 1.30:1 max. to 2 GHz.

#### MDC1530-# Matching Transformers:

Frequency: 0.5 to 600 MHz

0.5-300 MHz: Loss = 0.75 max. VSWR = 1.2:1 max.

300-600 MHz: Loss = 1.0 dB max. VSWR = 1.3:1 max.

Model	50 Ohm Conn	75 Ohm Conn	Frequency	VSWR*	Fig	Model	50 Ohm Conn	75 Ohm Conn	Fig
MDC1529-1	BNC-M	BNC-F	DC-1 GHz	1.20	1	MDC1530-1	BNC-M	BNC-F	2
MDC1529-2	BNC-F	BNC-M	DC-1 GHz	1.20	1	MDC1530-2	BNC-F	BNC-M	2
MDC1529-3	BNC-M	BNC-F	DC-2 GHz	1.30	2	MDC1530-3	BNC-M	TNC-F	2
MDC1529-4	BNC-F	BNC-M	DC-2 GHz	1.30	2	MDC1530-4	BNC-F	TNC-M	2
MDC1529-5	BNC-M	TNC-F	DC-2 GHz	1.30	2	MDC1530-5	N-M	N-F	3
MDC1529-6	BNC-F	TNC-M	DC-2 GHz	1.30	2	MDC1530-6	N-F	N-M	3
MDC1529-7	BNC-M	F-F	DC-2 GHz	1.30	2				
MDC1529-8	BNC-F	F-M	DC-2 GHz	1.30	2				
MDC1529-9	TNC-M	F-F	DC-2 GHz	1.30	2				
MDC1529-10	TNC-F	F-M	DC-2 GHz	1.30	2				
MDC1529-11	N-M	N-F	DC-3 GHz	1.35	3				
MDC1529-12	N-F	N-M	DC-3 GHz	1.35	3				
MDC1529-13	SMA-M	BNC-F	DC-2 GHz	1.30	2				
MDC1529-14	SMA-M	SMA-M#	DC-3 GHz	1.35	2				
MDC1529-15	TNC-M	TNC-F	DC-3 GHz	1.30	3				
MDC1529-15A	TNC-M	TNC-F	DC-4 GHz	1.35	3				
MDC1529-16	N-M	BNC-F	DC-2 GHz	1.30	3				
MDC1529-17	SMA-F	F-M	DC-2 GHz	1.30	3				

#50 Ohm Connector

