MATERIALS SCIENCE, INC.
Vacuum & Thin Film Technology

Model MN-500 Manual Impedance Matching Network

- **500 watt 13.56 MHz – Economically Priced**
- **Silver Plated Conductors and Inductors**
- **Air Cooled**
- **CE, CSA and UL Compliant**

Description

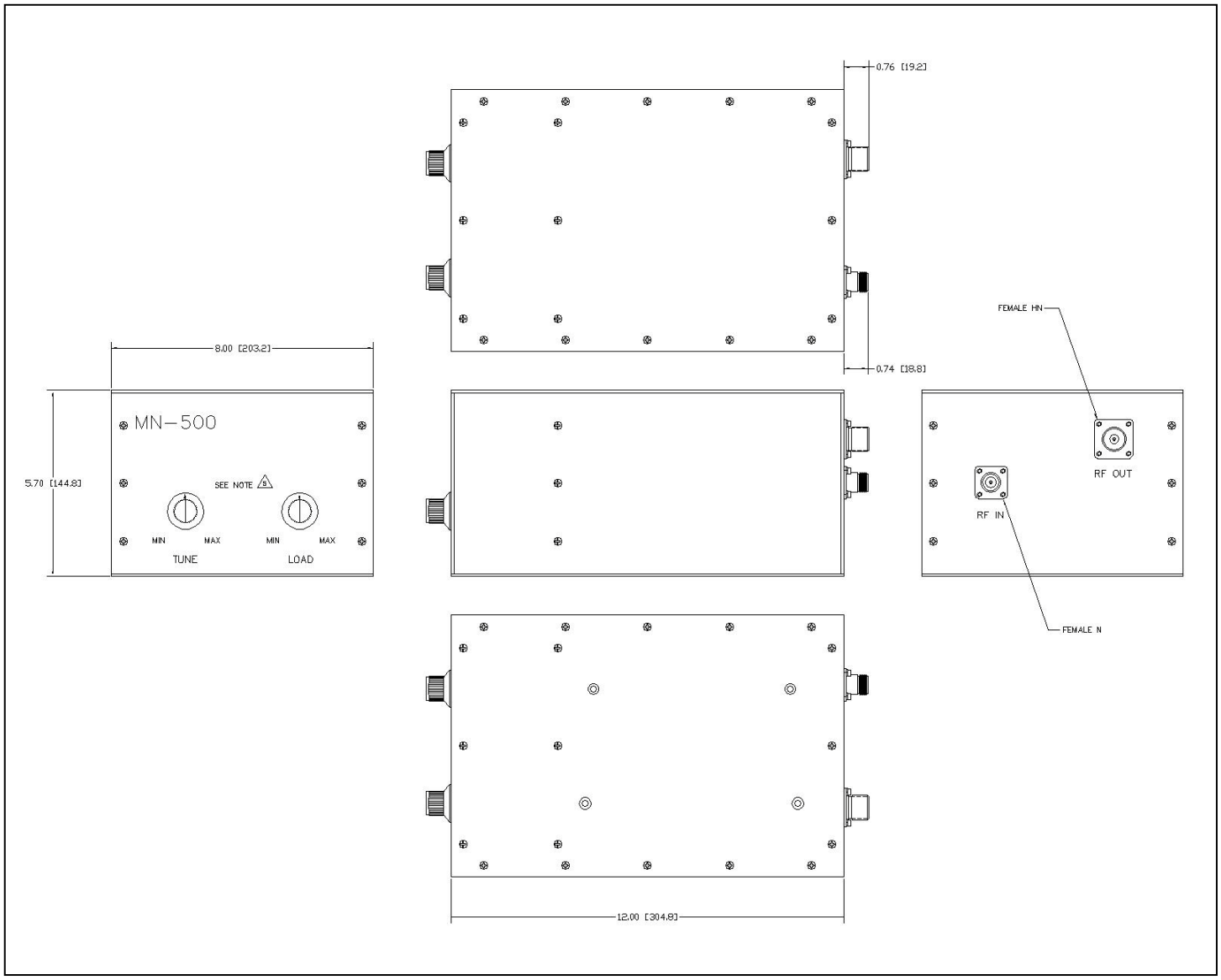
The MN-500 manually adjusted impedance matching network compliments the RF-3 300 watt RF power supply. Together, they provide an integrated RF power delivery and control system. The matching network contains a vacuum capacitor and an air variable capacitor. The MN-5 is an “L” network configuration which gives the matching network direct coupling to the plasma effect. This is the most efficient tuning method for power transfer in RF.

Forward and reflected power levels are read on the front panel of the RF-3 power supply.

Specifications

Power Rating	500 watts
RF Output Connector	Female HN Coaxial Cable Connector
RF Input Connector	Female N Connector from Power Supply (8' long RG-213 cable supplied)
Circuit Topology	“L” network configuration using an air variable load capacitor and vacuum capacitor
Output Impedance	Wide range. Will match sputtering source over entire normal pressure range of operation.
Output Cable (sold separately)	36” long RG-393 cable with Male HN Coaxial Connectors both ends recommended. Cables longer than 72" should not be used to minimize reflected power and cable heating.
DC Probe (optional)	Allows measurement of developed DC voltage
Size	8.00" wide x 5.50" high x 11.75" deep (20.32 cm x 13.97 cm x 29.85 cm)
Weight	Nominal 5 pounds (2.3 kg)

Interface Details



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