



## Model MMN150

### 150Watt Manual Impedance Matching Network



Coaxial Power Systems Ltd manufacture two styles of impedance matching network to link the load to the RF generator, manual and automatic. This document describes the manually operated version of the matching network. The purpose of the network is to adjust the input impedance of the load to 50 Ohms so that maximum power is transferred from the generator, whose output impedance is 50 Ohms, to the load.

#### **Manual Matching Network**

The manual matching network consists of two adjustable air vane capacitors and a fixed inductor, which are usually arranged as an "L" network. (The arrangement can be simply converted to a "Pi" network if required). Geared drives with numbered dials are used to adjust the capacitors for minimum reflected power as displayed on the generator reflected power meter. When the reflected power is zero, the system is "tuned" and all of the power output of the generator is being fed to the load. Two models, rated at 150W max. or 600W max. are available.

## General Specifications – 150Watt manual Impedance Matching Networks

### **Model MMN150 - 150Watt Impedance Matching Network - Manual**

Configuration	'L' 'Pi' or 'T'. (supplied configured as 'L' network unless requested otherwise).
Input impedance	50 ohms.
Input connector	N type.
Output impedance range ohms.	'L' network 0.5 - 20 ohms or 'Pi' network 10 - 200
Output connection outlet 600Watt	phase shift 0 - +/- 160. Single 'N' type. - 150Watt or Double 'N' type -
Capacitors	Other types available - consult factory
Capacitor Drives	Air-vane capacitors. Dial with scale marked 0 to 100 in 180° Gear reduction ratio: 6:1 approx.
Case Material	Chromated Aluminium finish
Style	Free Standing
Size	200mm(D) x 200mm(W) x 110mm(H)

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