

# MC-600

10kHz—30MHz IMPEDANCE MATCHING TRANSFORMER

The AOR MC-600 is a passive unit that interface between the 600Ω antenna terminal of many antique receivers, and the antenna with 50Ω coaxial cable. The MC-600 can also be used to match a high impedance wire antenna with a 50Ω receiver input. The MC-600 is ideal to use with AOR LA-380 or LA-390 small indoor loop antenna for antique receiver which usually do not have a 50Ω coaxial cable antenna input.



## MC-600 SPECIFICATIONS

Model	MC-600
Device	Impedance matching transformer
Frequency Range	10kHz to 30MHz
Impedance	50Ω : 600Ω
Insertion Loss	Less than 3dB
Connector	BNC-J & Terminal for strip wirer
Operating Temperature Range	-40°C to +85°C
Power Supply	No power is required.
Dimensions (Approx.)	34 x 24 x 50 mm (Box only.)
Weight (Approx.)	42 g

The MC-600 is designed for receiver, It is not intended to use with transmitter.  
Specifications subject to change without notice. E. & O.E.



Photo shows typical classic radio (antique radio) installation with supplied twin-lead cable.

## IMPEDANCE MATCHING

Impedance matching is the electronics design practice of setting the input impedance ( $Z_S$ ) of an electrical load equal to the fixed output impedance ( $Z_L$ ) of the signal source to which it is ultimately connected, usually in order to maximize the power transfer and minimize reflections from the load. This only applies when both are linear devices.

The concept of impedance matching was originally developed for electrical power, but can be applied to any other field where a form of energy (not just electrical) is transferred between a source and a load.

Matching is obtained when  $Z_L = Z_S^*$ .