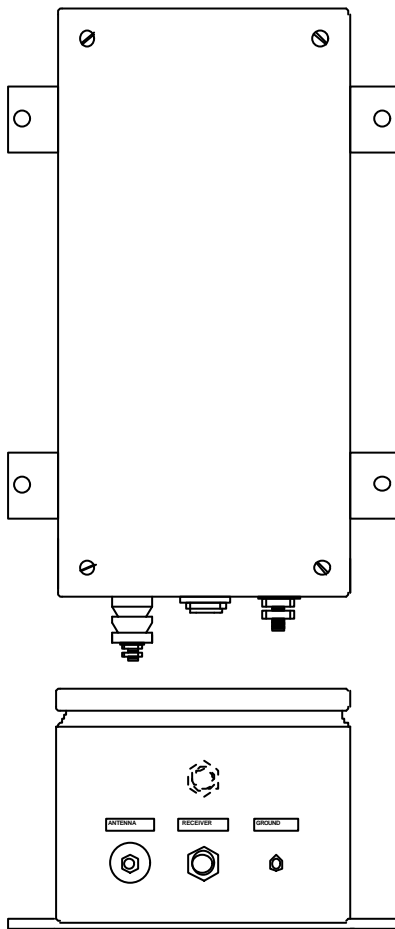


MOONRAKER

Type RXT1N & RXT2N Transformer

Matching transformer for MF/HF receiving antennas

The RXT1N (single feed) and RXT2N (dual feed) Transformers are a ruggedised, military version of our type MRA RX Transformer. It provides a wideband impedance match to a coaxial cable for either MF/HF whip or long wire antenna systems. The transformer is housed in a zinc coated welded steel box NATA tested to IP66 rating for water proofing.



The transformer converts the widely varying antenna impedance to a constant 50ohms, permitting long or variable lengths of coaxial cable to be used between the antenna and the receiver. Low loss cable is recommended for lengths exceeding 40 metres (130 feet). It is designed primarily for shipboard use, but is equally suitable for land based systems, to allow location of receiving antennas to be situated as far as practically possible from transmitting antennas or other high noise areas, such as power lines.

The antenna is DC grounded via the transformer to prevent static build-up and the connecting cable is DC isolated to prevent electrolysis. In addition a gas discharge device is also provided to allow for nearby lightning strikes.

Electrical connection to the antenna is by way of an insulated screw connector for a cable (not supplied) to the antenna feedpoint and an earth screw for ground connection. The connector for the coaxial cable(s) is inside the box with the cable entering via a cable gland(s). This negates the need to waterproof the connection(s). Mechanical mounting is provided by four 316 stainless steel lugs, permitting the unit to be easily fastened to the deck near the base of the antenna or nearby structures with screws or rivets.

The transformer components are housed in an IP66 rated zinc coated welded steel box powdercoated in a pebble grey colour. As a further guard against water ingress, the components are completely encapsulated. The lid is secured by 316 stainless steel screws and neoprene sponge seal.

Specifications

Dimensions	300 x 150 x 120 mm (11.8 x 5.9 x 4.7 in)
Frequency Range	0.28-30 MHz
Bandwidth	Full
Impedance	50Ω nominal
Antenna Types	7 metre(23ft) or longer whips or long wire antennas
Mountings	4 x stainless steel lugs to allow bolting down
Connection	N type (inside unit), allowing direct 50 ohm coaxial feed to receiver (RXT1N). RXT2N provides two coaxial feeds
Packed Weight	3.6 kg (7.92 lbs)

Specifications subject to change 8/99

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