

CNtoU MX-P150M AMP FOR QRP RADIOS

<https://chelegance.com/products/cntou-mx-p150m-amp-for-grp-radios/>



1-1. DESCRIPTION & SPECIFICATION

MX-P150M shortwave power amplifier, used for QRP small power radio, to increase the transmit power, can be fixed or car use, internal high VSWR protection power, VSWR higher than SWR2.5 will automatically cut off the amplifier to achieve protection, the panel has a working band indicator, forward transmit power indicator, reverse transmit power indicator, amplifier can be used for FT-818ND IC-705 KX2 KX3 SUNSDR2PRO and other QRP shortwave machines.

Your QRP low power transceiver becomes more powerful and transmits signals farther when using the MX-P150M shortwave power amplifier, which offers the following advantages:

STRONG POWER BOOST: The MX-P150M dramatically increases the transmission power of your QRP transceiver, ensuring that your signal can travel farther.

BUILT-IN VSWR PROTECTION: No need to worry about high VSWR causing damage to your equipment, the MX-P150M automatically cuts off the amplifier to protect your equipment.

Multi-Equipment Compatibility: Not only does the MX-P150M work with specific models of equipment, it also works well with a wide range of QRP shortwave transceivers to ensure your flexibility of choice.

Versatile: Whether you're outdoors, hiking, camping, or at home, the MX-P150M will meet your communication needs.

Product outer box size	260*180*90mm
Product weight	4kg
Input power	≤10W
Output power	100 – 130W
Current	12 – 20A
Voltage	13.8V
SWR protection threshold	SWR2.5
Antenna Interface	SO-239 50Ω
Frequency range	80m 40m 20m 15m 10m
Type	Class AB Linear Amplifier
Mode	SSB/FM/CW/AM/FT8
Band selection method:	Manual
Transceiver switching method	wire control

1-2. PART LIST

- 1× MX-P150M
- 1× POWER CORD
- 1× SEND CORD FOR IC-705 RADIO

1-3. INTERFACE



Front Panel

① POWER BUTTON

② FWD POWER

- The more lights on means more forward power from MX-P150M.

③ REF

- In normal conditions, we don't want too much reverse power. The more lights illuminated, the higher the reverse power, indicating a potentially high SWR.
- When all four lights are illuminated (the SWR greater than 2.5), it triggers standing wave protection, and there will be an audible alert.



- After triggering standing wave protection, the MX-P150M will disconnect. It's as if the radio is directly connected to the antenna, with the MX-P150M not being part of the system. To resume use, the MX-P150M needs to be powered off and then restarted.

④ BAND INDICATOR

⑤ BAND KNOB

- Adjust the knob to the band you want to operate.



(The diagram shows the 40m band.)



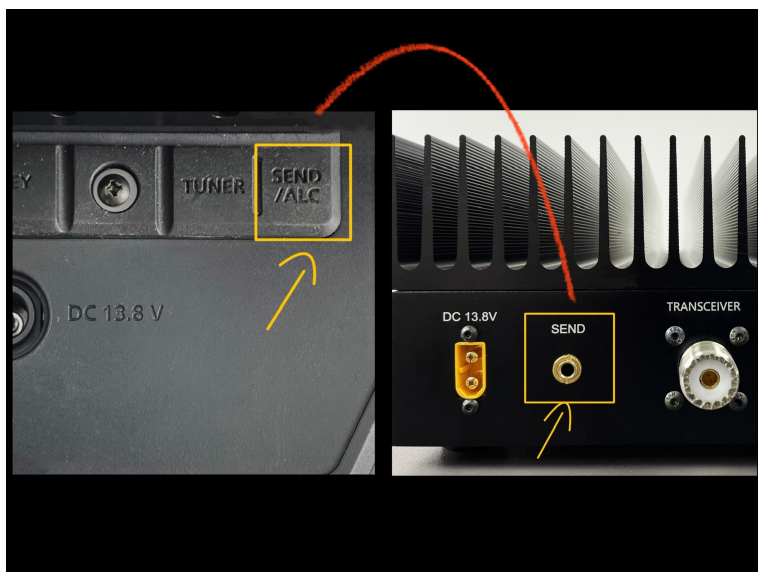
Rear panel

- ① DC 13.8V
 - Used to supply electricit.
- ② SEND INTERFACE
 - Using the configured SEND CABLE FOR IC-705 RADIO to connect the IC-705.
*Scroll down for other QRP models.
- ③ TRANSCEIVER INTERFACE
 - Used for connecting to the radio.
- ④ ANT INTERFACE
 - Used for connecting to the antenna.

1-4. INSTALLATION GUIDE

Adaptation of IC-705 as an example

- First, ensure that the power port, radio interface, and antenna connector are all properly connected.
- Using the SEND CABLE FOR IC-705 RADIO, connect the IC-705 to the MX-P150M.



- **Setting the menu of IC-705**

In the settings page, open the connectors, select 'send output'.

Only enable control for the HF bands. Ensure that the U/V bands are all disabled.



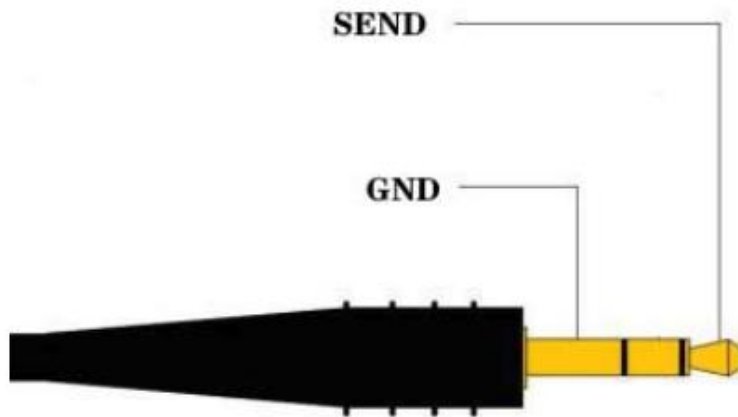
(MX-P150M is designed for shortwave band usage only. Incorrect usage in the U/V bands may lead to damage to the power amplifier or even the radio.)

OTHER QRP MODELS

- FT-818
- ELECRAFT KX2 KX3
- SUNSDR

Specific settings should be referenced in the instruction manual, and users need to find or make their own corresponding control wires.

Our SEND CABLE FOR MX-P150M is defined as follows:



MX-P150M SEND

Pay attention to the tips

- Input power should not exceed 10 watt.
- Both the **power** and the **radio** need to be set to the correct operating bands.

Reach out to us if you have any problems: support@chelegance.com

HAVE FUN WITH MX-P150M, 73!