



# RADIOWORLD

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## ACOM A700S 1.8 - 5.4 MHz Linear Amplifier £2599.96

### DESCRIPTION

Five inch (5") (108x65mm) high resolution color display, 800x480 pixels and 24-bits colors.

The final stage uses field effect (MOSFET) transistors type MRFE6VP61K25N, designed to withstand high mismatch (SWR) at the output and intended for operation in aerospace, industrial, mobile, and radio broadcast applications.

The final PA stage uses a rugged LDMOS transistor - MRFE6VP61K25N or equivalent.

Compatible with all transceiver models available on the market - does not need any special signals: "ground on transmit" (PTT) and 40W of RF drive power is sufficient.

Broadband input circuit providing a perfect transceiver load with SWR below 1.2:1 (typically 1.1:1), without retuning throughout the whole frequency range from 1.8 to 54MHz

The overall operation of ACOM 700S is extremely simplified: the screen menus are intuitive and easy to follow and no special skill is required from the operator when changing frequency bands

Possibility of automatic control – when connected to a transceiver with a CAT interface, the amplifier monitors constantly, duly follows the operating frequency, and changes the bands accordingly.

Even if not connected with CAT interface, the amplifier monitors the frequency of the input signal through the built-in frequency counter and automatically switches over the bands.

Remotely controlled by RS232 interface.

Takes care of itself during operation due to the continuously working protection circuits in all modes.



b) Intermodulation distortions (IMD3): better than 31dB below the rated PEP output.

k) Dimensions (projections not included) and weight, operating: (W x H x D) 326 x 143 x 365 mm (12,8 x 5,6 x 14,2 in); 11,8 kg (26 lbs).

d) Input and output impedances: nominal value: 50 Ohm unbalanced, UHF (SO239) type connectors;

- input circuit: broadband, SWR below 1.2:1 (1.1:1 typically); 1.8 – 54 MHz continuous range without retuning or switching;

- RF by-pass path SWR - below 1.1:1, 1.8-54 MHz;

- admissible SWR at the output load (the antenna): up to 3:1 with proportional power reduction and up to 1.5:1 for full output power;

e) RF power gain: 14dB +/-1dB;

f) Mains power supply voltage: 100V-240V without switching;

g) Mains power consumption at full output power: 1350VA or less with a power factor of 0.95 or higher;

h) Mains power consumption in Low Energy (waiting) mode: less than 1VA;

i) Complies with EU safety regulations and electromagnetic compatibility standards, as well as with the US Federal Communications Commission (FCC) rules;

j) Environment working conditions:

- temperature range: -10 C to +40 C (14 F to 104 F);

- relative air humidity: up to 95% @ 35 C (95 F);