

ACOM

ACOM 2020S

1.8-54 MHz Linear Power Amplifier



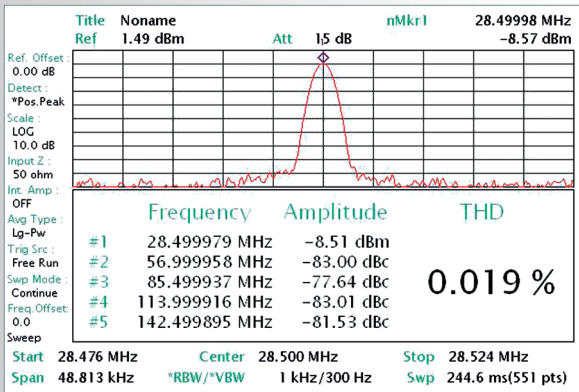
OUTSTANDING HF POWER PRODUCTS

1500 W RF OUTPUT

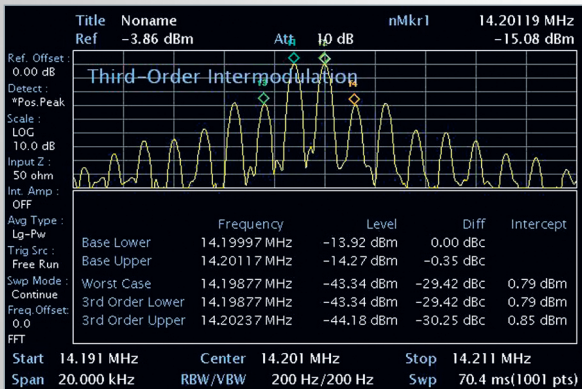
The ACOM 2020S is a state-of-the-art 1500 W heavy-duty, solid-state linear amplifier, covering all amateur bands from 1.8 to 54 MHz.



High Power Amplifier Units



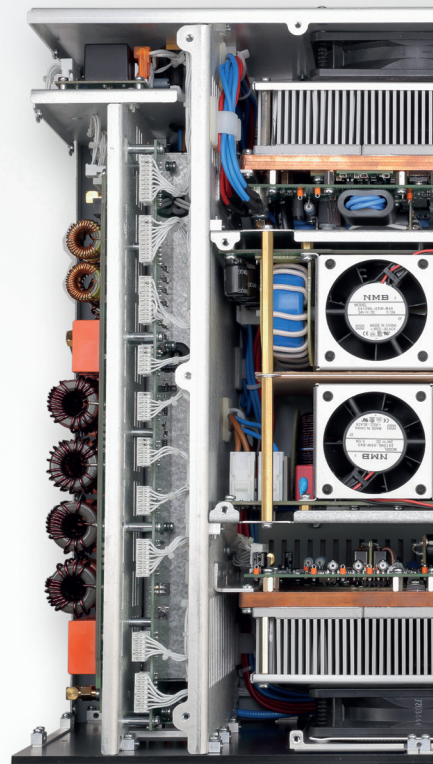
Total Harmonic Distortion = 0.019 %
Characteristics example on 28 MHz



3rd Order Lower = -35.42 dBc
Characteristics example on 14 MHz

Remote Control Unit

All indicators and controls (except the primary mains switch and power indicator) are accessible via the 7" touch screen Remote Control Unit or via Ethernet.



ACOM 2020S | Line

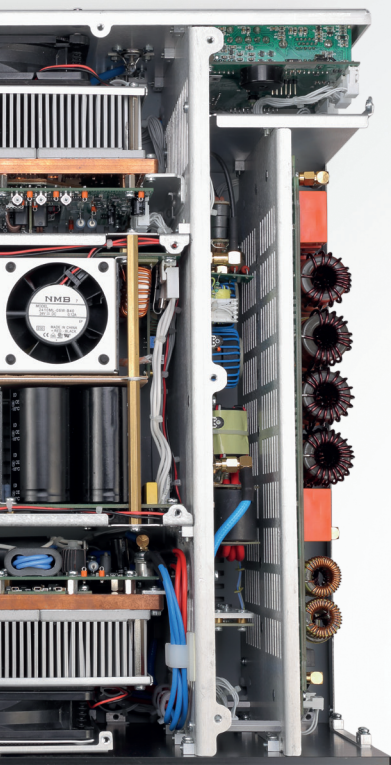
The amplifier uses two PA modules, two dip... for very low distortions





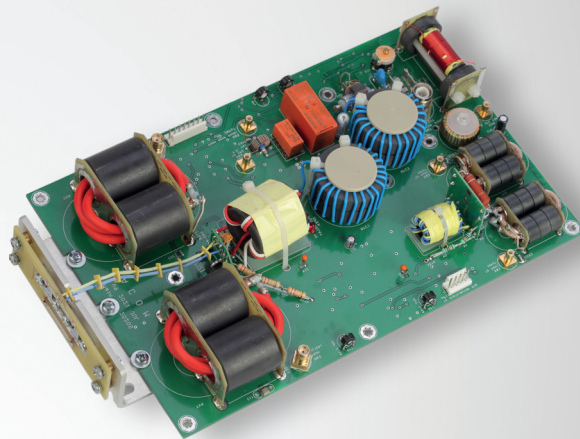
Easy to Operate

Only the Remote Control Unit could be placed within the reach of the operator while the amplifier Main Unit can be placed away.

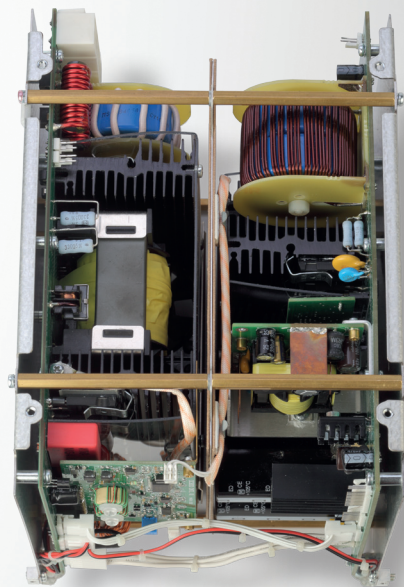


Linear Power Amplifier

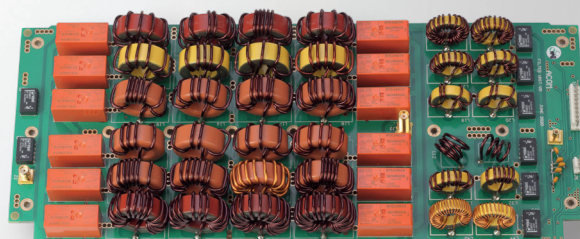
Diplexer filter units and powerful PA combiner and pure output signal.



High Performance Combiner / Divider



3.5 kVA Low Noise Switching Power Supply



Diplexer Filters

SPECIFICATIONS

FREQUENCY COVERAGE

All amateur bands in the 1.8-54 MHz frequency range

POWER OUTPUT

1500 W, PEP or continuous carrier, no mode limit

INTERMODULATION DISTORTION

Better than 30 dB below rated PEP

HARMONIC AND PARASITIC EMISSIONS OUTPUT SUPPRESSION

- 1.8-29.7 MHz - better than 60 dB below rated output
- 50-54 MHz - better than 70 dB below rated output

INPUT AND OUTPUT IMPEDANCES

- Nominal value: 50 Ohm unbalanced, UHF (SO-239A) type connectors
- Input: broadband, SWR below 1.2 (1.1 typically), 1.8-54 MHz continuous range without retuning or switching
- RF bypass: SWR - below 1.1, 1.8-54 MHz
- Output: Antenna SWR below 1.5 is recommended; up to SWR 3 is allowable with proportional power reduction

RF POWER GAIN

14 dB \pm 1 dB (typically 60 W drive for 1500 W output)

MAINS POWER SUPPLY VOLTAGE

200-240 VAC, \pm 10%, 50-60 Hz, Single phase

MAINS POWER CONSUMPTION AT RATED OUTPUT POWER

- Up to 3300 VA
- Power factor of 0.95 or higher (PFC-corrected current)

MAINS POWER CONSUMPTION IN LOW ENERGY (WAITING) MODE

Less than 1 VA

SAFETY AND ELECTROMAGNETIC COMPATIBILITY

Complies with CE safety and electromagnetic compatibility requirements, as well as with the US Federal Communications Commission (FCC) regulations

SIZE & WEIGHT (Operating, excluding connected cables)

- Amplifier, WxDxH: 428x425x190 mm, 21.9 kg (16.9x16.8x7.5 inches, 48.3 lbs.)
- Remote Control Unit, WxDxH: 204x144x92 mm, 0.9 kg (8.1x5.7x3.7 inches, 2.0 lbs.)



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