

ACOM

# ACOM 2020S

1.8-54 MHz Linear Power Amplifier



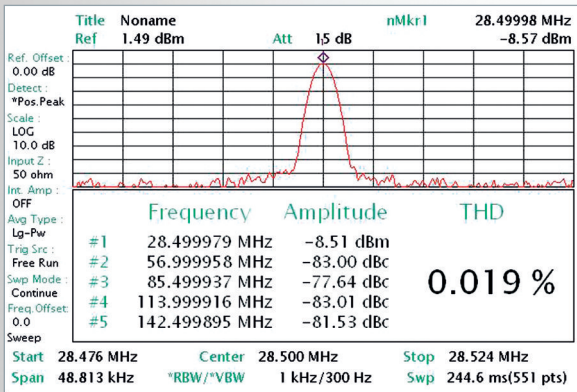
OUTSTANDING HF POWER PRODUCTS

## 1500 W RF OUTPUT

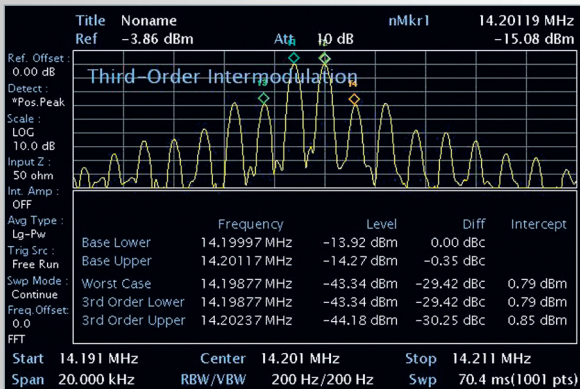
The ACOM 2020S is a state-of-the-art 1500 W heavy-duty, solid-state linear amplifier, covering all amateur bands from 1.8 to 54 MHz.



High Power Amplifier Units



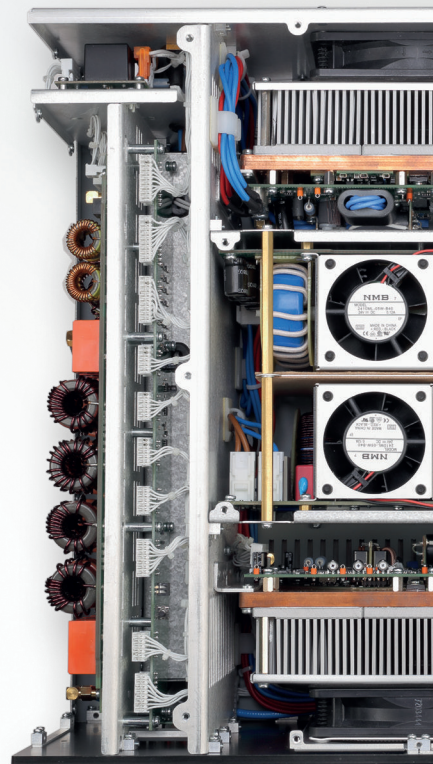
**Total Harmonic Distortion = 0.019 %**  
Characteristics example on 28 MHz



**3<sup>rd</sup> 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

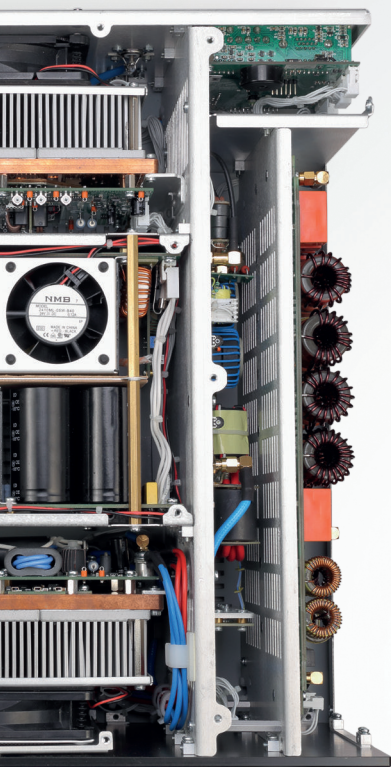
The amplifier uses two PA modules, two dip... for very low distortions





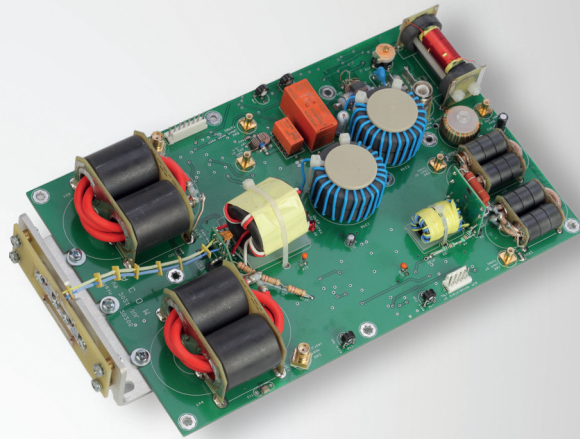
### Easy to Operate

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

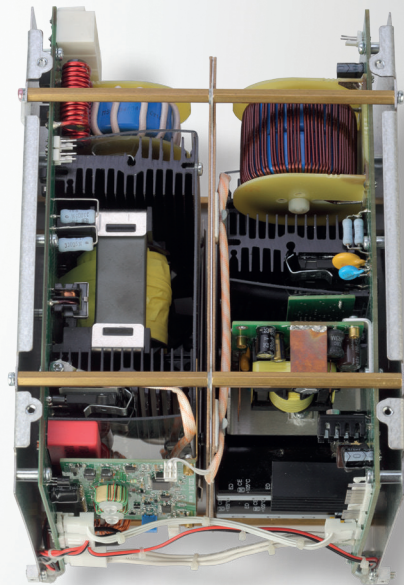


### Linear Power Amplifier

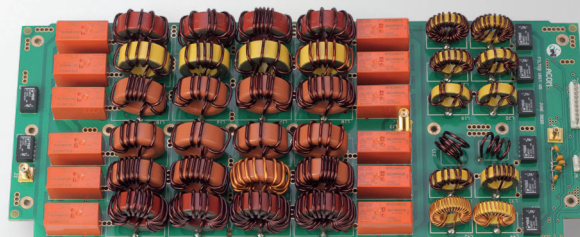
Diplexer filter units and powerful PA combiner and pure output signal.



### 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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