

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.

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.





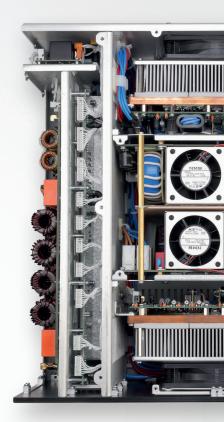
High Power Amplifier Units

	Title Ref	Noname 1.49 dBm	Att	1 ₁ 5 dB	nMkr1	28.49998 MH: -8.57 dBn		
ef. Offset :				*				
etect :			_					
Pos.Peak				T				
ale :				++	+ +			
.0G								
put Z :			/					
50 ohm	MAN.	and a an MAL	mon	h	man	An and man worth		
nt. Amp : OFF Avg Type : Lg-Pw Frig Src :	Frequency Amplitude THD							
	#1	28.4999791	MHz	-8.51 dl	Bm			
Free Run	#2	56.9999581	MHz	-83.00 c	BC			
wp Mode : Continue Freg.Offset:	#3	85.4999371	MHz	-77.64 0	iBc (0.019 %		
	#4	113.9999161	MHz	-83.01 c	iBc	.015 /0		
).0 weep	#5	142.499895	MHz	-81.53 c	IBC			
	8.476 M	AHz Cente	r 28.500) MHz	Stop	28.524 MHz		
Span 4	8.813	Hz *RBW/*VBW	1 k	Hz/300 Hz		244.6 ms(551 pts)		

Total Harmonic Distortion = 0.019 % Characteristics example on 28 MHz

	Title Ref	Noname -3.86 dB	m	Ath	₩0 dB	nMkr1	14	4.20119 MHz -15.08 dBm
Ref. Offset : 0.00 dB Détect : *Pos.Peak Scale : LOG 10.0 dB Input Z : 50 ohm	Thi	rd-Ord	er Inter			Λ	AA	ΑΛΛ
Int. Amp : OFF Avg Type : Lg-Pw Trig Src : Free Run	Base I Base I		Frequ 14.1999 14.2011	7 MHz	-13.92 -14.27		Diff 0.00 dBc 0.35 dBc	Intercept
Swp Mode : Continue Freq.Offset: 0.0 FFT		Case rder Lowe rder Uppe		7 MHz	-43.34 -43.34 -44.18	dBm -2	9.42 dBc 9.42 dBc 0.25 dBc	0.79 dBm 0.79 dBm 0.85 dBm
	.191 M 0.000 k		Center RBW/VBW	14.201 200	MHz Hz/200 Ha	Stoj z Swj		1 MHz ms(1001 pts)

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



ACOM 2020S | Line

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

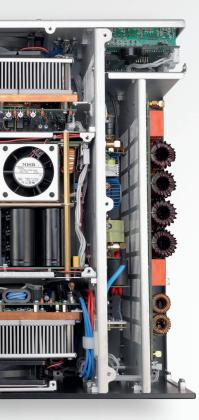






Easy to Operate

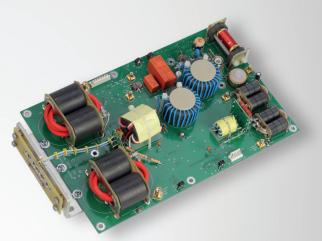
Only the Remote Control Unit could be placed within the reach of the operator while the amplifier Main Unit can be placed away.



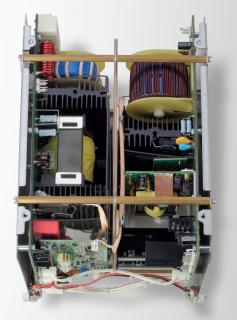
ar Power Amplifier

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

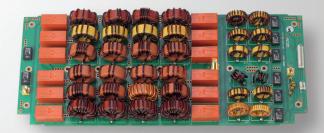




High Performance Combiner / Divider



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 ±1 dB (typically 60 W drive for 1500 W output)

MAINS POWER SUPPLY VOLTAGE

200-240 VAC, ±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.)



♀ ACOM Ltd.

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