



Hilberling

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HPA50-500

HF Power Amplifier



HF POWER: 500 Watt
AC VOLTAGE: 90-260 Volt



Project: HF Power Amplifier

Technical Data

Performance Data

- Frequency Range	28 ... 50 MHz
- Input Power	-10 dBm
- Output Power 24h/CW	500Watt -0.5 dB / +1 dB
- Load Impedance VSWR	max. 3:1
- Harmonic Filter	50 MHz
- Spurious Response	< -60 dBc typ.
- System Impedance	50 Ohm
- Operating Mode	AB-linear

HF Connectors

- HF Input	N-type female
- HF Output	N-type female

Power Supply

- Supply Voltage	90 ... 260V AC / 50 Hz
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Control Inputs

- TRANSMIT ON / OFF	+5V OFF / 0V ON
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Technical Data

Status LEDs

- Operation	LED green
- HF ON	LED green
- SWR Overload	LED red
- Temperature Overload	LED red
- Input Overload	LED red

Status Signals

- SWR	5V OK / 0V NOT OK
- HF ON	5V OK / 0V NOT OK
- Temperature	5V OK / 0V NOT OK

Temperature Range

- Operation	0 ... +40°C
- Storage	0 ... +70°C

Cooling

- Air Cooling	active by Fans
- Air Entrance	Front Panel
- Air Outlet	Rear Panel

Housing

- Material	Sheet Steel / Front Panel Aluminum
- Dimensions	19" / 4HE / Depth 360 mm
- Weight	19.5kg



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Interface Description

J2 CONTROL / D-Sub DE-9

PIN	Name	Level	Description
1	GND	GND	
2	Transmit ON	ON = 0V (GND) OFF = 5V	Input Activates the PA
3	GND	GND	
4	SWR Overload	Error = GND OK = High Impedance	Output SWR Monitoring
5	TEMP Overload	Error = GND OK = High Impedance	Output Temperature Monitoring
6	INPUT Overload	Error = GND OK = High Impedance	Output Input Power Monitoring
7	Forward Power	DC 0...5V	Output Voltage proportional to Output Power
8	Reflected Power	DC 0...5V	Output Voltage proportional to reflected Power
9	GND	GND	