



# RH6132-400W

The RH6132 is a solid state, cost effective, broadband power amplifier

designed to meet the new standards of software defined radios to satisfy the performance required in the use of HF radios in modern, digital communication systems.

The RH6132 has proven performance used as a standard RF amplification module.

Broadband RF amplification with the complete elimination of tunable elements gives the family's components the frequency agility characteristics required by ALE (Automatic Link Establishment) operation over the HF band.

The main features of the amplifier are:

- Built-in controller
- LED indicators
- 2 -levels overheat protection
- Short/open output protection
- Continuous operational cycle at full output power
- High reliability in harsh environment

# Technical specifications

<b>Frequency range:</b>	1.5-30 MHz
Output Power: in SSB mode in CW mode	peak — 500 W average — 500 W
<b>Gain:</b>	38 dB
<b>Gain flatness in frequency range</b>	±1 dB
<b>Input power level Intermodulation</b>	18±3 dBm better than -34 dB (ref to any tone)
<b>Non-harmonic components:</b>	better than - 70dB
<b>Harmonic components:</b>	better than - 60dB provided with 8-bands switchable filter at frequency bands: 1.5-2.2 MHz 2.2-3.2 MHz 3.2-4.6 MHz 4.6-6.7 MHz 6.7-9.8 MHz 9.8-14.2 MHz 14.2-20.6 MHz 20.6-30 MHz
<b>Input/output impedance:</b>	50 Ω
<b>VSWR</b>	2:1 - 5:1
<b>Operation with unmatched load:</b>	Output power is reduced: 240W at VSWR=2, 180W at VSWR=3, 160W at VSWR=4, 80W at VSWR=5, autonomous protection at short or open output
Tuning time	3 s
<b>Tx/Rx switching time</b>	10 ms
<b>Rx/Tx switching time</b>	25 ms
<b>Switching between any harmonic filters</b>	2 ms
<b>Cooling system:</b>	forced air cooling
<b>Over heat protection:</b>	Cooling system automatic control, 2-level protection.
<b>Primary Power:</b>	90-250 VAC, 47-63Hz

<b>Power consumption:</b>	Less than 1700 W.
<b>Duty cycle:</b>	Continuous, with forced air cooling
<b>Operation temperature range</b>	-10 to +50 °C
<b>Dimensions:</b>	482(W) ×177(H) ×627(D) mm
<b>Weight:</b>	27 kg