



FM SOLID STATE LOW POWER AMPLIFIER

KF 500

Technical Characteristics

RF specifications:

Operating frequency range	87.5 ÷ 108 MHz
Max. output power	0 - 550 W
Input power	0 - 12 W
Input connector	N
Output connector	DIN 7/16" (others on request)
Power consumption (at maximum power)	690 VA
Input and output impedance	50 Ω
Spurious and harmonic suppression (ref. to carrier)	< - 82 dBc
Synchronous AM (ref. 100% mod.)	< - 50 dB
Asynchronous AM (ref. 100% mod.)	< - 50 dB
RF Probe	-50 dBc, 50 Ω, BNC
Power stability	< 1%
RF efficiency (before the output filters)	80% typ.
Overall efficiency	69% typ.

Measures (on the front panel):

Total output forward power
Total output reflected power
Output forward power of each RF stage
Output reflected power of each RF stage
DC supply voltage of each RF stage
DC supply current of each RF stage

Protections:

The internal logic circuitry provides proportional fold-back protection, without on-air interruptions, for:
- VSWR
- air over-temperature or insufficient cooling
- output combiner unbalancing
- fault of RF or power supply stages

Automatic power control:

The automatic power control circuitry provides the output power regulation with a precision of 2% over the whole band.
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Remote control interface:

I/O Connector	DB-25
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Monitored & controlled functions:

- stand-by
- Total forward output power
- Total reflected output power
- DC supply voltage of each RF stage
- DC supply current of each RF stage
- alarms status

AC Power requirements:

Type of DC voltage regulation	switch-mode
Operating Voltage	110/220/240 Vac \pm 10% Vac 50/60 Hz, single-phase.

Operating conditions:

Cooling	forced air by internal fans
Service	continuous 24/24 h
Operating temperature	-5 $^{\circ}$ \div +45 $^{\circ}$ C
Relative humidity	95%
Max.installation altitude	3000 m a.s.l.

Mechanicals:

Weight	27 kg
Dimensions (W x D x H)	483 x 640 x 132 mm - single rack

[Features and specifications subject to change without notice.](#)