

# RF Broad-Band Power Amplifiers

UHF system up to 2 kW output power



e.g. 250 W RF amplifier 400 MHz

- rugged solid state manufacturing
- excellent linearity
- high spectral purity
- compact design
- light weight
- protection circuits against load mismatch, overdrive, overheat and overload
- built in sequence control with power supply for external preamplifiers
- several options on request

|                                   |                                                                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency range:</b>           | 390 – 460 MHz                                                                                                                                                                  |
| <b>Bandwidth:</b>                 | wide band 70 MHz or small band on request                                                                                                                                      |
| <b>Output power:</b>              | min. 50 W CW, @1 dB (0,2dB) compression<br>max. 2 kW (standard, up to 5 kW on request)<br>PTT and RESET local or remote switchable                                             |
| <b>Input power:</b>               | 3 Watt for nominal output power                                                                                                                                                |
| <b>Ripple:</b>                    | ± 1 dB or (0,5dB)                                                                                                                                                              |
| <b>Harmonics:</b>                 | - 60 dBc min.                                                                                                                                                                  |
| <b>Para waves:</b>                | - 60 dBc @ 1 Tone rejection                                                                                                                                                    |
| <b>System impedance:</b>          | 50 Ohm                                                                                                                                                                         |
| <b>Max. load VSWR:</b>            | 1:4,0 incl. Isolator                                                                                                                                                           |
| <b>Supply voltage:</b>            | 185-260 V 50-60 Hz, 6,3A (US-version on request)                                                                                                                               |
| <b>Activation period:</b>         | 100%                                                                                                                                                                           |
| <b>Environmental temperature:</b> | -30°C bis +40°C                                                                                                                                                                |
| <b>Dimensions:</b>                | 482 x 176 x 470 mm (B x H x T) 19"-rack mount unit                                                                                                                             |
| <b>RF connections:</b>            | N-Norm socket back side                                                                                                                                                        |
| <b>Control socket:</b>            | DIN connector with interface for PTT, RESET, MONITOR                                                                                                                           |
| <b>Conformity:</b>                | 06/95/EC, 2004/108/EC and 99/5/EC: EN 301 783-1 V1.1.1 (2000-09), EN 301 783-2 V1.1.1 (2000-09) EN 301 489-1 V1.6.1 (2005-09), EN 301 489-15 V1.2.1 (2002-08) EN 60950-1: 2006 |