

**Tunable Power Amplifier
TPA 1000
1KW 1.5÷30 MHz**

**Y170117-01A
P/N 560-00934-000**



ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Power Supply	: 110 - 220 VAC
Maximum Absorption	: 5000 VA
Operating Frequency	: 1.5 – 30 MHz
Output Power CW	: 500W - 1000W
Tx Gain Flatness	: ± 1 dB
Input Power for Rated Output Power	: 40 dBm, different on request
Input Return Loss	: < 1.5 VSWR
2 nd Harmonic rejection	: >50dBc
3 rd Harmonic rejection	: >70dBc
Distortion with 80% AM Depth - 1KHz Tone	: ≤10%
Alarms	: Primary power fail, overtemp., high VSWR. Automatic bypass on failure
RTX bandpass filter step:	
1.5-4 MHz	: 250
4-10 MHz	: 250
10-30 MHz	: 250
RTX b.p. Filter 3dB BW	: 4% Typ.
RTX b.p. Filter Shape factor 30dB/3dB	: 7typ. 8max.
TX-RX Switching time	: ≤8ms
Rx Noise figure	: <10dB
Rx gain	: 1dB ± 0.5dB

Size (excluding connectors)	: 19" 3U-6U 560 mm depth
RF Connectors Input/Output	: Type – N, Female
Cooling	: Controlled forced air
Weight	: 30kg-40Kg

ENVIRONMENTAL

Operating Temperature Range	: -20 ÷ +55 °C MIL STD 810G
Storage Temperature Range	: -40 ÷ +70 °C MIL STD 810G
Umidity	: 95% r.h. @50°C not condensing MIL STD 810G
Vibration	: MIL STD 810G
Shock	: 20g for 11ms IEC 60950-1
Safety	: EN 60950-1 IEC 60950-22 EN 60950-22
EMC	: ETSI EN302617

INTERFACE SPECIFICATIONS

Transceiver	: All commercial transceivers can be interfaced with TPA
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All data may change without notice. Measurement tolerances to be added.

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