



TMR1096 (125 W)

GENERAL

Frequency Range

- 1.5 to 30 MHz

RF Output Power (Class AB Mode)

- 125 W \pm 1 dB average or PEP into 50 ohm load
- Selectable reduced power level: 62, 31, 16, 8, 4, 2, and 1 W \pm 1 dB, Continuous duty

VSWR

- Full power output up to 1.3:1 VSWR
- Automatic output power derating for load VSWR > 1.3:1

Input RF Drive

- 50 mW

Intermodulation Distortion

- Class AB Mode, 125 W PEP
 - IMD3 = -28 dB typical below tones
 - IMD5 = -38 dB typical below tones
 - IMD11 and higher order products = -67 dB typical below tones

Harmonics

- All harmonics at least 63 dB below fundamental.

Protection Mechanisms

- Over Temperature Protection
- Output Load Mismatch Protection
- Over Current Protection

Voltage Requirements

- Input Voltage
 - 85 - 264 VAC, single phase, 47-63 Hz, autoranging
 - 20 - 32 VDC Reserve Battery, auto changeover
- Input Power Factor
 - 0.98 @ 90 VAC and 125 W CW output power
- Power Consumption
 - 530 VA maximum

Control Interface

- Local Bus
 - RS-232 diagnostic and RS-485 control from Series 5000 Exciter

ENVIRONMENTAL/PHYSICAL

Temperature

- Operation: -5°C to +49°C
- Storage: -31°C to +71°C

Humidity

- MIL-STD-810E

Vibration

- MIL-STD-167-1 (Ships) Type 1

Shock

- MIL-STD-810E

EMI/EMC

- MIL-STD-461D

Dimensions (W x H x D)

- 19 x 7 x 4 in (483 x 178 x 95 mm)

Weight

- 20 lbs (9 kg)

OPTIONS

- TMR4095 and TMR4096 Digital Antenna Couplers
- Rack mount bracket kit for mounting separate from radio

TMR1096 125 W POWER AMPLIFIER Part Number 796012-000-001

- Full BITE, Local or Remote, to LRU
- Power Output Adjustable from 1 W to 125 W in 3 dB Steps
- AC Input 85-264 VAC, Auto-ranging, or DC Input 20-32 Volts, Auto Changeover
- MIL-STD-188-141B (App A) and TADIL-A/LINK-11 Compatible
- Fully Compatible with TMR4095/4096 Digital Antenna Coupler (No Control Cable)
- VSWR, Temperature and Over Current Protection



TMR1096 125 W Front View



TMR1096 125 W Back View