



IA1300P63; 1300 MHz 2000W POWER AMPLIFIER

FEATURES

- Solid-state Class AB design
- Ruggedized MOS Transistors
- High reliability and ruggedness
- Forward/Reflected Power, Current & Temperature Monitoring
- Open/Short Load Full Protection
- Liquid Cooling



GENERAL DESCRIPTION

IA1300P63 is a 2000W CW Power Amplifier instrument designed with Solid State technology and operated at 1300 MHz. This solid state power amplifier is a product developed for Professional application in the field of particle accelerators. It can provide continuous wave or pulsed form of RF power.

ELECTRICAL SPECIFICATIONS		MECHANICAL & ENVIROMENTAL SPECIFICATIONS	
Frequency:	1300 MHz	RF Input:	N - FEMALE
Output Power:	2000 W min.	RF Output:	7/16 - FEMALE
Nominal Gain:	65 dB	Operating Ambient Temperature	-20 to 55 °C
Overdrive Input Power	+10 dBm	Storage Temperature	-30 to 85 °C
Input VSWR	2:1 typ.	Relative Humidity	Up to 95%
Load VSWR	∞:1 (Fully mismatch tolerant)	Operating Altitude	Up to 3000 meters above sea level
Harmonics (2nd / 3rd)	60 dBc with Harm. Filter option	Cooling	Liquid Cooler
Spurious	55 dBc typ.	Dimensions	4U Height 19" (W) x 670 mm (Depth)
Line Power	4500 VA	Weight	30 kg

BUILT-IN FUNCTIONS
Power Monitoring
Temperature Monitoring
Current Monitoring
LCD Display
Ethernet

OPTIONS
OPT-1: Harmonic Filter *
OPT-2: RF Switching Unit *
OPT-3: RS-485, CAN BUS, RS-232, GPIB
* Output power may be degraded with those options