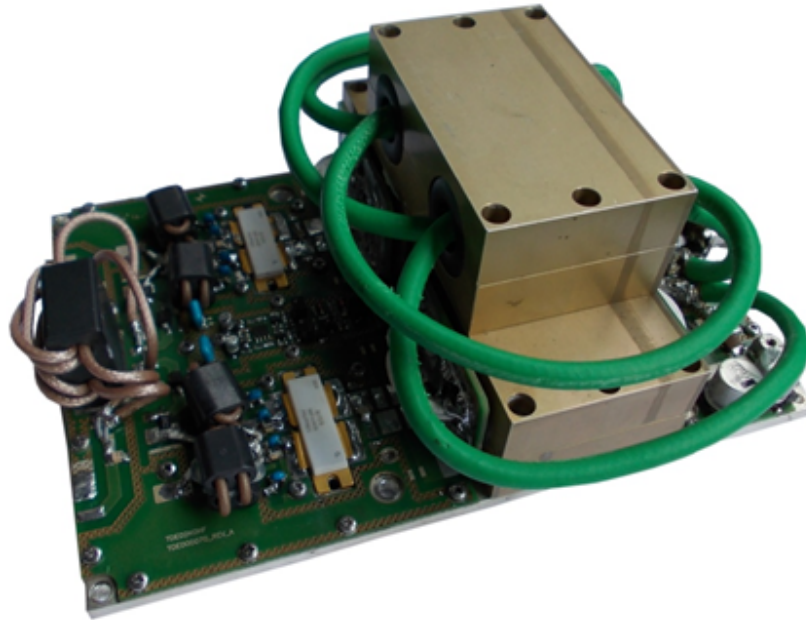


ITC 008ISM

2-30MHz 2000W RF Amplifier



General Description

This power amplifier is designed for ISM applications, where high power and coherent signal are required. This amplifier uses the latest and most reliable LDMOS device, to ensure high efficiency, high gain with relevant ruggedness.

Typical Applications:

- Industrial Heating
- Medical
- Plastic welding
- Defrosting system
- Industrial tissue drying
- Wireless charging systems
- Tempering and metal braze welding

Main Characteristics

Frequency	2 to 30 MHz
Pout	2000W (adj 0-2000W)
Efficiency	75% min
Gain	23 dB typ.
Operating	B class
Supply	48V nominal

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Technical Specifications

Frequency Range	2-30MHz
Output Power	2000W
Power Gain	23 dB
Supply Voltage	48V
Efficiency	75%
Quiescent Current	0.3 A
Input R Loss	-15dB
Load Mismatch	2:1 full phase VSWR
Load Mismatch	10:1 full phase
Phase Noise	-50dBc/Hz
Frequency Stability	10ppM

Mechanical

Dimensions (LxWxH)	210x145x100mm (8.26 x 5.70" x 3.93")
RF In/Out connection	Solder tab, N connector on request
RF In/Out connection	Solder tab
DC feed connection	Screw
Carrier	Copper
Weight	2Kg

Environmental

Operating temperature	0-80°C (carrier temperature)
Storage temperature	-20 + 80°C (ambient temperature)
Humidity	up to 90% no condensing

Screws Type

Screws point 1-2-3-4-5-6-7-8-9-10-11-12 M3 Socket head cap screws

12x split lock washers WZ ϕ 3.5

12x flat washers WZ ϕ 3.5

Thermal Compound

Recommended Dow Corning 340 (thermal compound)

or equivalent

Ordering Code

ITC008ISM

Mechanical Layout

