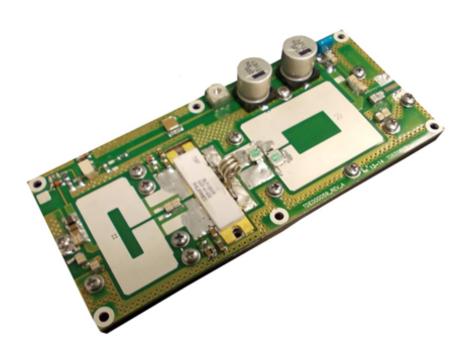


ITC 004ISM

80-120MHz 1000W High power 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. The design of this amplifier is based on microstrip transformer.

Typical Applications:

- Industrial Heating
- Medical
- Plastic welding
- Defrosting system
- Industrial tissue drying

Main Characteristics

Frequency	80 to 120 MHz	
Pout	1000W (adj 0-1000W)	
Efficiency	75% min	
Gain	23 dB typ.	
Operating	B class	
Supply	48V nominal	



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Technical Specifications		
Frequency Range	80-120MHz	
Output Power	1000W	
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	
Mechanical		
Dimensions (LxWxH)	135x60x30mm	
	(5.31" x 2.36" x 1.18")	
RF In/Out connection	Solder tab	
DC feed connection	Screw	
Carrier	Copper	
Weight	0.5Kg	

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 M3 Socket head cap screws

8x split lock washers WZ \(\tilde{g} \) 3.5

8x flat washers WZ \(\tilde{g} \) 3.5

Thermal Compound

Recommended Dow Corning 340 (thermal compound)

or equivalent

Ordering Code

ITC004ISM

Mechanical Layout

