

ITC 012ISM

100MHz – 1Ghz 100W Wide Band RF Amplifier Driver



General Description

This power amplifier is designed for ISM applications, where high power and coherent signal are required. The extreme wideband of this amplifier make allow to use this component as a Driver of many kind of Power amplifier in the range 0.1 to 1Ghz.

Typical Applications:

- Industrial Heating
- Plasma Generator
- Medical
- Microwave Furnaces
- Particle Accelerators
- RF Lighting
- Microbiological Testing
- Wideband data transmission system

Main Characteristics

Frequency	0.1 to 1Ghz
Pout	100W (adj 0-100W)
Efficiency	20% min
Gain	34 dB typ.
Operating	B class
Supply	48V nominal
Control	Level and Mute

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Technical Specifications

Frequency Range	0.1 to 1GhzMHz
Output Power	100W
Power Gain	34dB
Supply Voltage	48V
Efficiency	20%
Quiescent Current	0.5 A
Input R Loss	-15dB
Load Mismatch	10:1 full VSWR

Mechanical

Dimensions (LxWxH)	154.5 mm x 77.5 mm x 30 mm (6.082" x 3.051" x 1.181")
RF In/Out connection	Input SMA output N
DC feed connection	IDC 9 way
Carrier	aluminium
Weight	0.3Kg

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 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18 M3
Socket head cap screws

18x split lock washers WZ ϕ 3.5

18x flat washers WZ ϕ 3.5

Thermal Compound

Recommended Dow Corning 340 (thermal compound)

or equivalent

Ordering Code

ITC012ISM