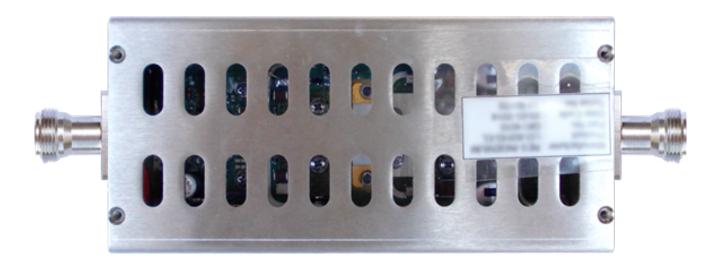


ITC 003ISM

2.45GHz 300W RF Generator



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. This amplifier is based on printed microstrip technology, to ensure low phase and gain spread unit to unit, making simple the parallel configurations.

Typical Applications:

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

Main Characteristics

Frequency	2.4 to 2.5 GHz
Pout	300W (adj 0-300W)
Efficiency	50% min
Gain	15 dB typ.
Operating	B class
Supply	28V nominal
Control	Frequency, Level and Mute
Measure	FWD and REF



ITC 003ISM

2.45GHz 300W High RF Generator

Technical Specifications (typical)		
Frequency Range	2425 ÷ 2475MHz	
Output Power	300W	
Power Gain	15 dB	
Supply Voltage	28V	
Efficiency	50%	
Quiescent Current	0.3 A	
Input R Loss	-18dB	
Load Mismatch	10:1 full VSWR	
Load Mismatch	∞ full phase	
Phase Noise	-50dBc/Hz	
Frequency Stability	10ppM	
Mechanical		
Dimensions (LxWxH)	154.5 mm x 77.5 mm x 30 mm	

Solder tab

Screw

Copper

0.5Kg

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Ln	<i>nr</i>	nma	ntal
CIII	vii U	IIIIIe	ntal

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 Ø 3.5

18x flat washers WZ Ø 3.5

Thermal Compound

Recommended Dow Corning 340 (thermal compound)

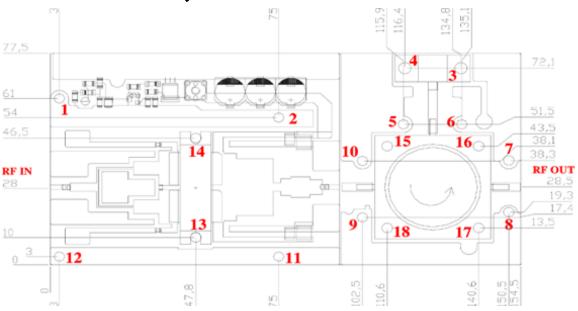
or equivalent

Ordering Code

ITC003ISM

Mechanical Layout

6.082" x 3.051" x 1.181")



RF In/Out connection

DC feed connection

Carrier

Weight