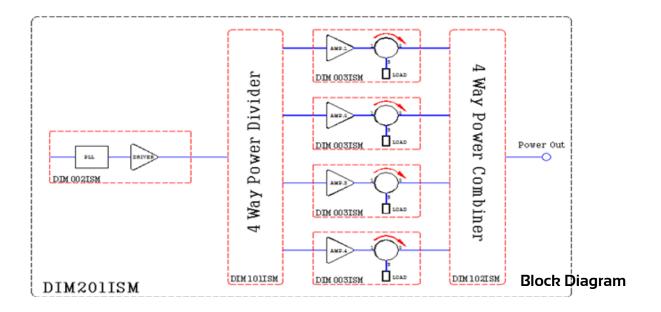


ITC 201ISM

2.45GHz 1000W High power RF Generator Component Kit



General Description

This kit includes all the parts that are used to build a 1000W microwave generator for ISM application, suitable for standalone amplifier as well as a power brick of high power solid state generator. The amplifier section is equipped with the latest and most reliable LDMOS device, to ensure high efficiency, high gain with relevant ruggedness. It is based on printed microstrip technology, to ensure low phase and gain spread unit to unit. RF signal generation is composed by a very stable PLL, operating frequency is selectable by serial interface. This generator can be used in PWM mode or frequency agility mode.

Typical Applications:

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

Main Characteristics		
Frequency	2.4 to2.5 GHz	
Pout	1000W (adj 50-1000W)	
Efficiency	50%	
Load VSWR	Full mismatch tolerant	
Operating	B class	
Supply	30dc V nominal	
Control	Frequency, Level and Mute	
Measure	FWD and REF	





ITC 201ISM

2.45GHz 1000W High power RF Generator Component Kit

Technical Specifications (typical)	
Frequency Range	2425 ÷ 2475MHz
Frequency step	0.1MHz
Output Power	1000W
Power Regulation	50-1000W
Supply Voltage	+30Vdc
Efficiency	≥ 50%
Current	70 Amps
Output Matching	18dB
Load Mismatch	∞ full phase
Phase Noise	-50dBc/Hz -80 dBc/Hz on request
Frequency Stability	10ppM

Operating temperature	0-70 °C (heatsink temperature)
Storage temperature	-20 + 80°C (ambient temperature)
Humidity	up to 90% no condensing
Screws Type	
To be designed under cust	omer requirement.
Thermal Compound	
Recommended Dow Corni	ng 340 (thermal compound)
or equivalent	

Mechanical

To be installed inside the customer parts
7/16"
Solder Tab
To be mounted on customer heat- sink
бКg

Ordering Code

ITC201ISM

Mechanical Layout

To be designed under customer requirements.

