1.55-1.62GHz 100W Power Amplifier

P/N: PA155162GA100W

Description:

The power amplifier is a 100 W power amplifier. The typical output power Past 50 dBm. The DC power requirement for the amplifier is +28 VDC/9.5 A. Accept customization according to different needs.

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications（+25℃）:

Parameter	Min.	Typ.	Max.	Units
Frequency Range		1.55-1.62		GHz
Input Signal Type		CW&Pulsed		
Input Pulse Width Range		50ns to CW		
RF Input Drive	-4		5	dBm
Saturated Output Power	50			dBm
Flatness @Psat			±1	dB
Gain Flatness			2	dB
Second Harmonics @ Max.Power	50			dBc
Non-Harmonics Spurious @Max.Power	60			dBc
Out of band rejection（ at 1480MHz and 1800MHz ）	70			dBc
Input VSWR			1.5	:1
Output VSWR			1.5	:1
Impedance		50		Ω
supports attenuation control		0~31dB, step: 0.5dB		
Power on/off Time			10	us
Power on/off	By TTL 0/3.3V（ Power on : 0V /Power off: 3.3 V/ Default value : 3.3 V ）OR via the serial port to Operate amplifier			
Operating Voltage		28 V/≤9.5		A
Output VSWR Protection	Open Circuit VSWR Protection ， Amplifier Power off and Alarm			

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Parameter	Min.	Typ.	Max.	Units
Reverse Polarity Protection	POWER positive and negative reversed Protection			
Over Temperature Protection	The amplifier is shut down at temperatures over 85°C and is restarted once the temperature drops below 65°C and Alarm			
Overvoltage and undervoltage protection	voltage Over 32V&below 24V ，amplifier power off and Alarm			
Overcurrent Protection	amplifier power current Over 15A ，amplifier power off and Alarm			
Forward Power	Forward Power Detection Voltage can be Read via the serial port			
Reversed Power	Reverse Power (or Reflected Power) Detection Voltage can be read via the serial port			
Operating Voltage	amplifier power Voltage can be Operated via the serial port			
amplifier power Current	amplifier power current can be read in real-time via the serial port			
attenuation control	attenuation can be controlled via the serial port			
amplifier Voltage	amplifier voltage can be read in real-time via the serial port			
amplifier Temperature	amplifier Temperature can be read in real-time via the serial port			
Dimensions	Max:300±0.1mm×150±0.1mm×36±0.1mm			
weight	≤3kg			
Communication model	Rs485 serial communication			
RF Interfaces	SMA-Input、Output-N、coupling-port-SMA			
coupling-port	Forward Power Coupling Port			

Environmental Specifications:

※ Operational Temperature -40℃~+60℃

※ Storage Temperature -55℃~+125℃

RoHS COMPLIANT

OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

MICZEN THCHNOLOGIES CO.,LTD.

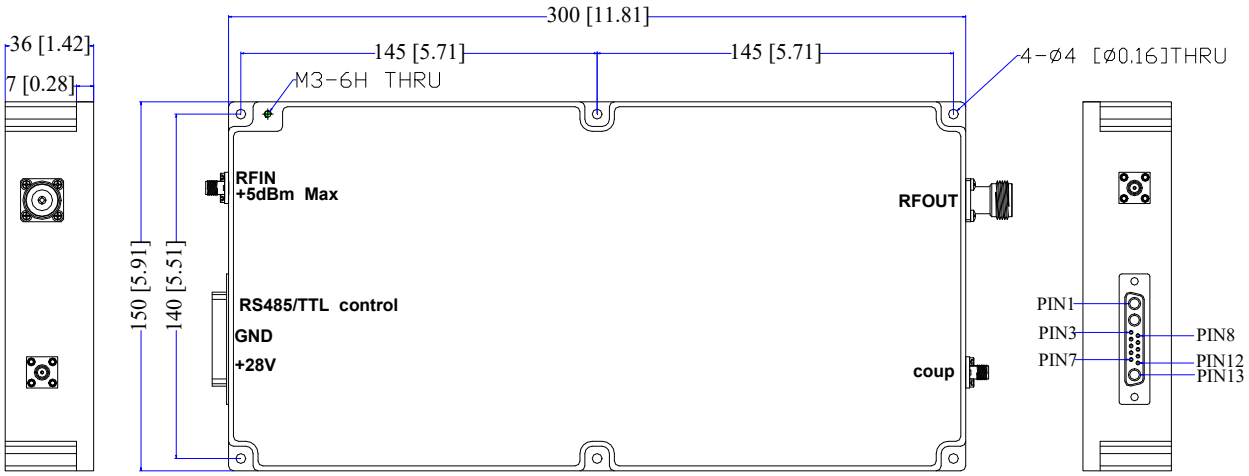
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■ Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



TTL Control Voltages	
Stage	Bias Condition
Low(0)	0V~0.2VDC
High(1)	+2.2V~+3.5VDC

DB13W3 Define	
1	+28
2	+28
3	RS485_A
4	RS485_B
5	DGND
6	TTL
7	GND
8~12	NC
13	GND

Heat Sink required during operation

NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.