

## 100 to 950MHz 50W – Power Amplifier

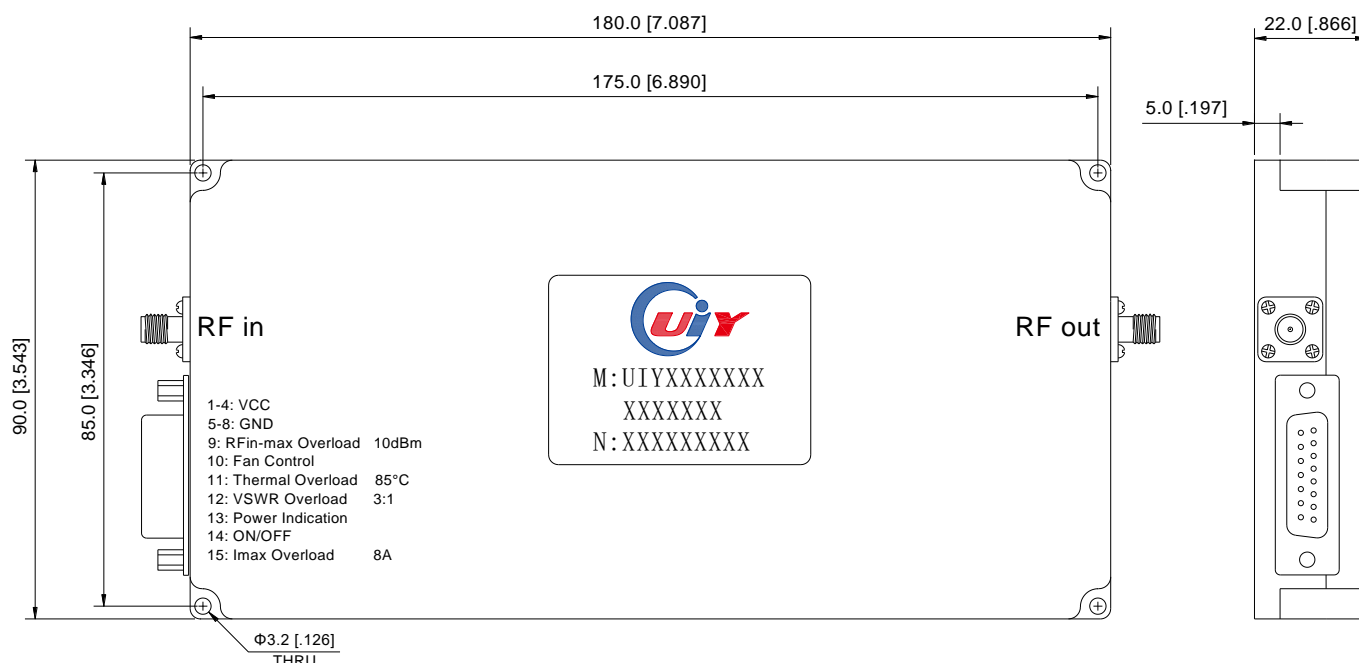
### UIYPA18090B100T950SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System					
Parameter	Symbol	Min	Type	Max	Unit
Operating Frequency	BW	100		950	MHz
Power Output CW	Po		50		W
Power @1dB	P1dB		30		W
Power Gain @CW	G		42		dB
Gain Flatness	ΔG		±2.0		dB
Input/Output VSWR	S11/S22		2:1	2.5:1	
Odd Harmonics @CW	H	8	10		dBc
Even Harmonics @CW	H	20	22		dBc
Spurious Signals	Spur	65	70		dBc
Operating Voltage	VDC		28		Volt
Current Consumption	I		6		A
Operating Temperature	Tc	-25		+55	°C
Storage Temperature	Tstg	-55		+85	°C
Thermal Overload	Tod		85°C		Max
VSWR Overload	VSWR		3:1		Max
Imax Overload	Imax		8A		Max
RFin-max Overload	RFin-max		10dBm		Max
Interface Connector			DB-15		
Connector Type			SMA		

✧ Listed are specific frequency ranges and other ranges are available.  
 ✧ Please provide the below information when inquiring and mark \* is required.  
 \* 1. The specific pass band frequency range  
 \* 2. The specific Gain and Power  
 \* 3. Other special requests.

### Mechanical Drawing

Note: External heatsink is needed in this module



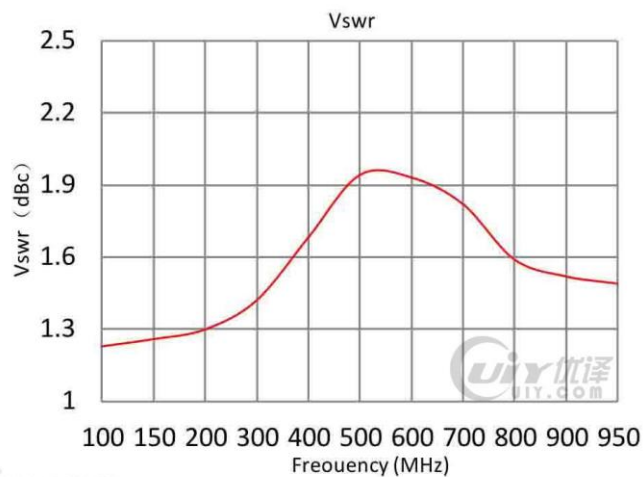
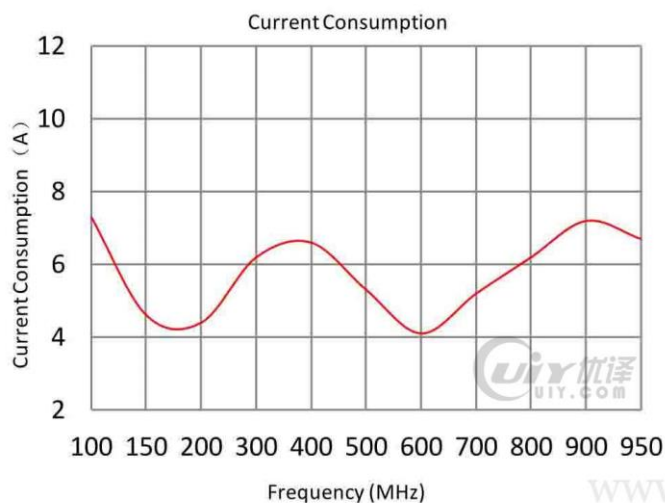
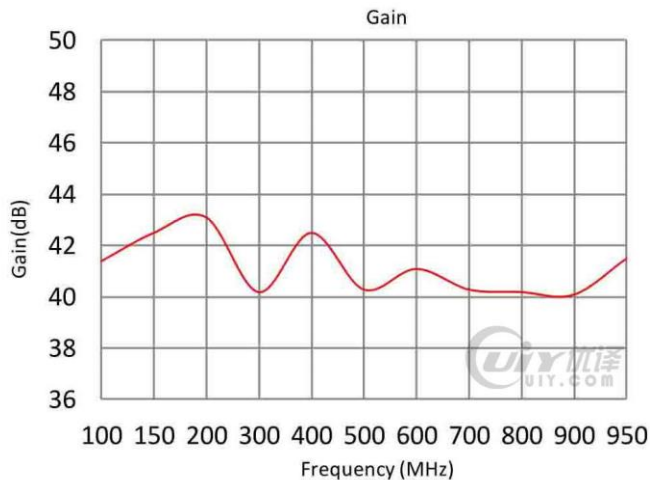
Unit: mm/ inch, General part tolerance is ±0.2mm unless otherwise stated.

Ver. 5

## Test Data

### UIYPA18090B100T950SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System				
Freq. Range (MHz)	Output Power (dBm)	Current (A)	Gain (dB)	Input VSWR
100	47.4	7.3	41.4	1.23
150	47.5	4.6	42.5	1.26
200	47.1	4.4	43.1	1.30
300	47.0	6.2	40.2	1.42
400	47.5	6.6	42.5	1.68
500	47.3	5.3	40.3	1.94
600	47.1	4.1	41.1	1.93
700	47.3	5.2	40.3	1.82
800	47.0	6.2	40.2	1.59
900	47.1	7.2	40.1	1.52
950	47.5	6.7	41.5	1.49



Unit: mm/ inch, General part tolerance is  $\pm 0.2$ mm unless otherwise stated.

Ver. 5