

1 to 150MHz 100W – Power Amplifier

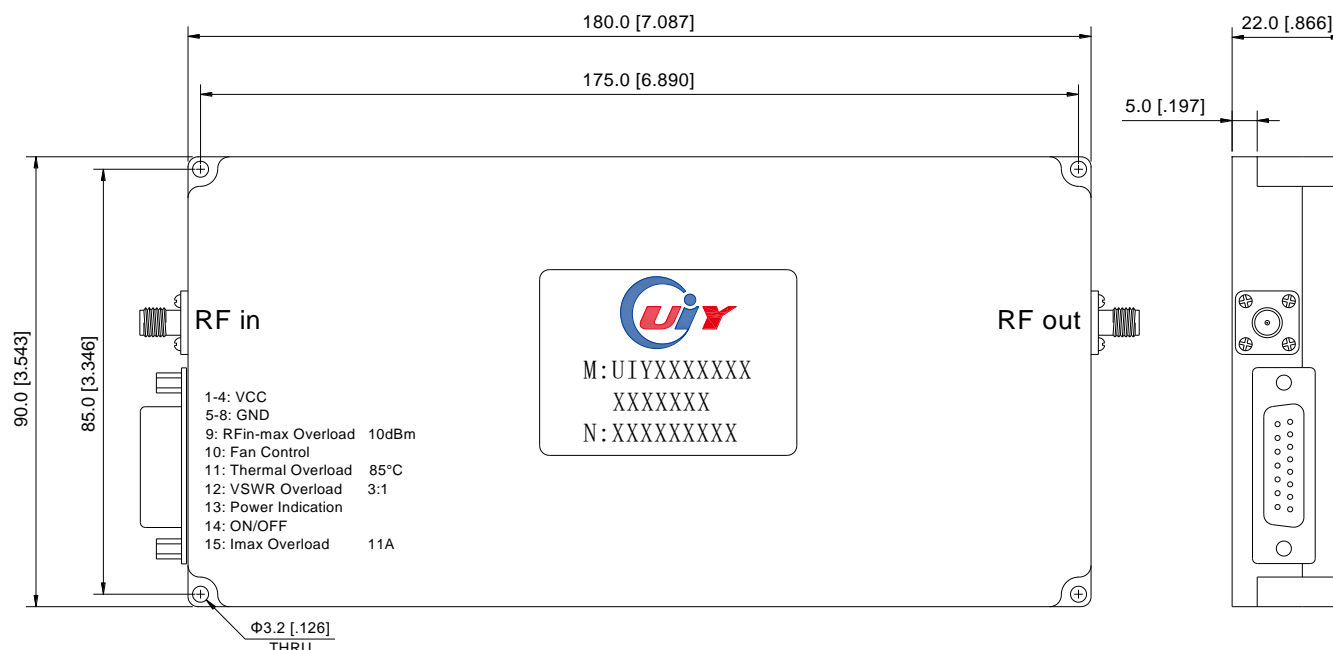
UIYPA18090F1T150SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System					
Parameter	Symbol	Min	Type	Max	Unit
Operating Frequency	BW	1		150	MHz
Power Output CW	Po		100		W
Power @1dB	P1dB		75		W
Small Signal Gain	G		45		dB
Gain Flatness	ΔG		±1.5		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		9		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		11A		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 ±2% unless otherwise stated.

Ver. 5

Test Data

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Freq. Range (MHz)	Output Power (dBm)	Current (A)	Gain (dB)	Input VSWR
1	50.0	8.7	44.0	1.83
5	50.2	8.8	46.2	1.84
10	50.1	8.7	46.1	1.84
20	50.2	9.0	45.2	1.84
40	50.1	9.2	45.1	1.88
60	50.1	9.4	45.1	1.88
80	50.0	9.2	45.2	1.89
100	50.2	9.4	45.3	1.89
120	50.7	9.0	45.7	1.87
140	50.4	9.1	44.4	1.82
150	50.3	9.2	44.3	1.80

