

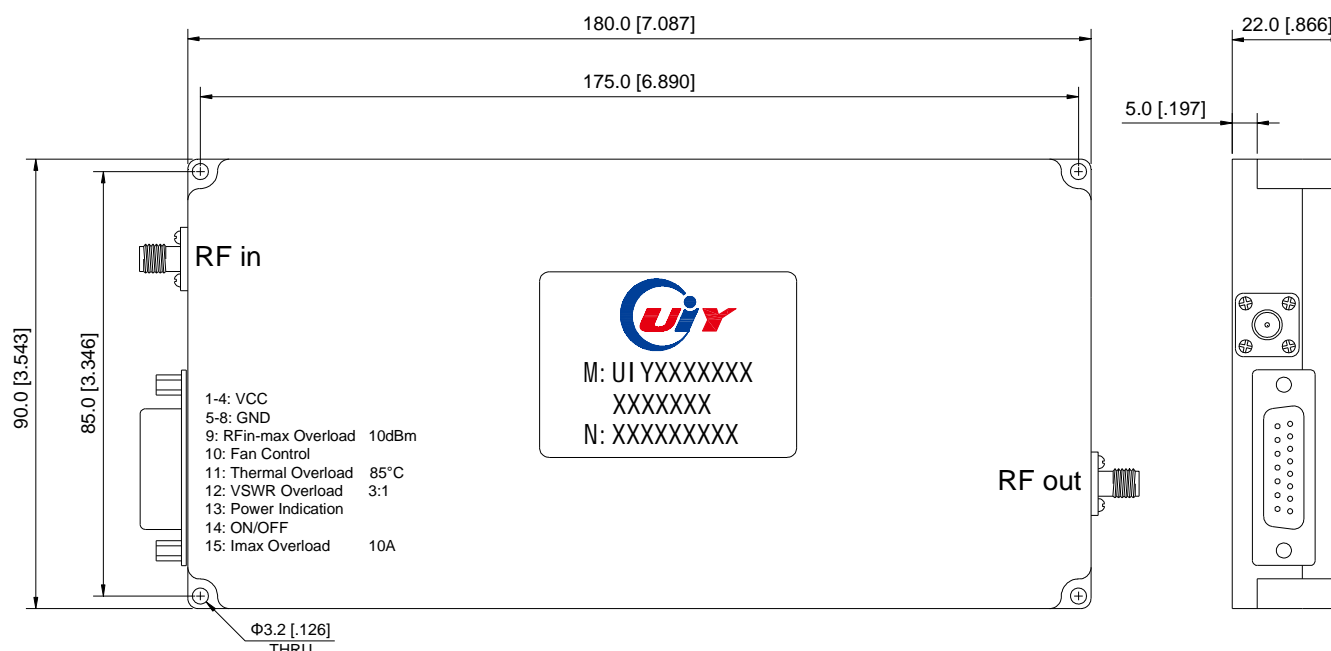
20 to 520MHz 100W – Power Amplifier

UIYPA18090G20T520SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System					
Parameter	Symbol	Min	Type	Max	Unit
Operating Frequency	BW	20		520	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		8		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	10A			Max
RFin-max Overload	RFin-max	10dBm			Max
Interface Connector	DB-15				
Connector Type	SMA				
² Listed are specific frequency ranges and other ranges are available.					
² 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

UIYPA18090G20T520SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System				
Freq. Range (MHz)	Output Power (dBm)	Current (A)	Gain (dB)	Input VSWR
20	50.6	7.6	46.6	1.50
50	50.1	7.3	45.1	1.52
100	50.4	7.3	45.4	1.51
150	50.4	6.9	45.4	1.50
200	50.4	6.8	44.4	1.51
250	50.3	6.9	44.3	1.53
300	50.6	7.5	44.6	1.57
350	50.7	7.9	44.7	1.61
400	50.6	8.2	44.6	1.72
450	50.0	7.9	45.0	1.81
520	50.4	8.6	44.4	1.98

