20 to 512MHz 120W – Power Amplifier

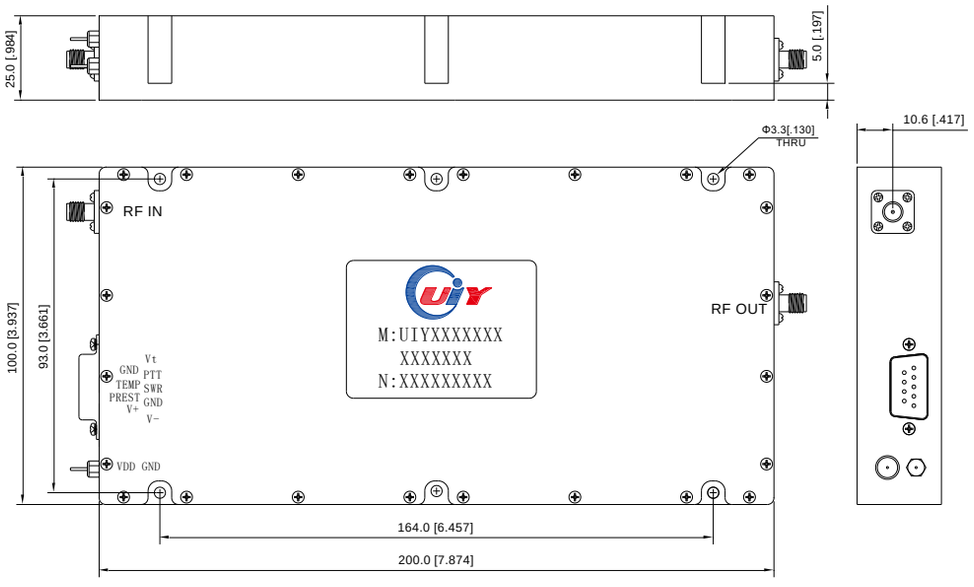
UIYPA200100B20T512SF

RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System					
Parameter	**Symbol**	**Min**	**Type**	**Max**	**Unit**
Operating Frequency	BW	20		512	MHz
Power Output CW	Po	100	120		W
Saturation Output Power		120			
Power Gain @CW	G	50	53		dB
Input Power	Pin		-3	0	dBm
Gain Flatness	△G		±1.5	±2.0	dB
Input VSWR	S11		1.5:1		
Odd Harmonics @CW	H	-12	-15		dBc
Even Harmonics @CW	H	-15	-20		dBc
Noise Figure	NF		6	8	dB
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC		28	30	Volt
Current Consumption @Po=100W	I_D		9	12	A
Operating Temperature	Tc	-40		+60	**°C**
Storage Temperature	Tstg	-55		+70	**°C**
Connector Type	Input SMA Female, Output SMA Female				

✧ 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



GND: Grounding
PTT: High level work, low level or hanging on shutdown.
Temp: Over temperature protection, output high level at +70℃, PA shutdown.
SWR: VSWR output protection, output VSWR>3 or open circuit, output high level, PA shutdown.
Vt: PA Temperature, Vt=0.5V+TC×10mV/℃.
V+: Forward RF power Indicator.
V-: Reversed RF power Indicator.
Prest: Reset function, when it occurs protection, send a pulse signal, it can reset.
VDD: Working Voltage: +28V.

Unit: mm/ inch, General part tolerance is ±2% unless otherwise stated.

Ver. 5.1

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