

Specification

1. Item

Product	5150~5725MHz 30W High Power Amplifier
Partnumber	EHM-5150-45-46

2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: EHM-5150-45-46
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General Specification

No.	Parameter	Specification	Unit
1	Operating Frequency Range	5150~5725MHz	-
2	Output Power(Psat)	30	-
3	Gain	48dB typ.	-
4	Gain Flatness	±1.0dB typ.	-
5	Normal Input Power	-3dBm	-
6	Input/output VSWR	1.5	-
7	Harmonics	-45dBc typ.	-
8	Spurious Signal	-60dBc	-
9	Operating Voltage	28V	-
10	Current Draw@45dBm	4.0A max	-
11	Load VSWR	∞ : 1 VSWR	-
12	Protection	Over current : @ ≥ 4.5A Over temperature : Shutdown @ ≥ +90°C, Auto-restart @ +80°C	-

Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimension	180*115*28	-
2	RF Connector	SMA Female	-
3	DC/Interface Connector	D-SUB 9Pin Male	-
4	Operating Case Temperature	-20 ~ +80°C	-
5	Storage Temperature	-40 ~ +90°C	-
6	Relative Humidity(Non-condensing)	5~95%	-

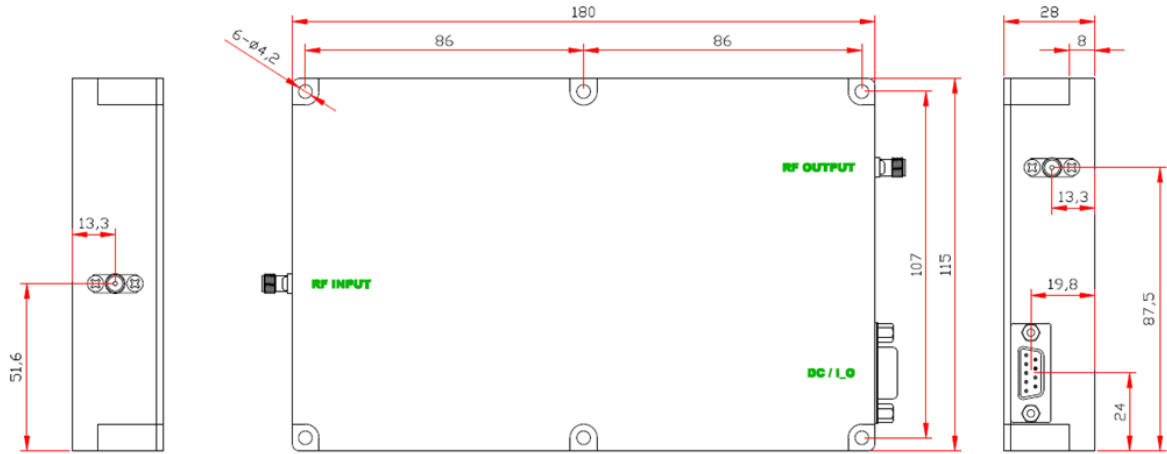
Pin Description

Pin No.	Description	Specifications
1	Over Power Alarm	Alarm : TTL "High"@ >+48dBm
2	Reverse Power Alarm	Alarm : TTL "High"@ \geq VSWR 3:1
3	High Temp. Alarm	Alarm : TTL "High"@ Temp. : \geq +95°C Shutdown, Auto-restart @ +85°C
4	DC Fail Alarm	Alarm : TTL "High"@ \leq +26V or \geq +30V
5	Enable/Disable	Enable: TTL "Low", Disable: TTL "High"(3.3V) (Internally pull down)
6	Forward Power Monitor	Enable: TTL "Low", Disable: TTL "High"
7	Reverse Power Monitor	4.0 \pm 0.1V@Po=+47dBm, Center Frequency 4.0 \pm 0.15V@Po=+47dBm, Over Frequency
8	Temperature Monitor	3.0 \pm 0.1V@Po=+37dBm, Center Frequency 3.0 \pm 0.15V@Po=+37dBm, Over Frequency
9	GND	Ground
11,12,13	VDD	+28VDC
14,15	GND	Ground

Pin Description

Pin No.	Description	Specifications
1	Current Monitor	Analog voltage related to main current
2	NC	
3	Temperature Monitor	$V_o = (10\text{mV}/^\circ\text{C} \times \text{Temp}) + 500\text{mV}$
4	NC	
5	Enable/Disable	Enable: TTL "Low", Disable: TTL "High"(3.3V) (Internally pull down)
6,7	VDD	+28VDC
8,9	GND	Ground

■ Mechanical Dimension [Unit: mm]



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