

# Specification

## 1. Item

Product	1930~1990MHz 30W HPA
Partnumber	EHM-1930-45-50

## 2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: EHM-1930-45-50
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### General Specification

No.	Parameter	Specification	Unit
1	Operating Frequency Range	1930MHz ~ 1990MHz	-
2	Output Power	30W	-
3	Gain	50dB	-
4	Gain Flatness	±0.5dB	-
5	Gain Variation @ Temp.	±1.0dB	-
6	In/Output Return Loss	15dB	-
7	ACLR Pout : 30W BW : 20MHz, LTE PAR : 8dB@CCDF 0.01%	-45	@±20MHz
			@±40MHz
8	Harmonic	-45dBc	-
9	Spurious Signals	-70dBc	-
10	Operating Voltage	27~29V	-
11	Current Consumption	4.0A Max.	-

### Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimension	190*130*28	W*D*H (mm)
2	Weight	1.1	kg
3	RF Connector	SMA(F)	-
4	DC Connector	D-SUB 3W3P Male	-
5	Interface Connector	D-sub 9Pin Male	-

### Environmental Specifications

No.	Parameter	Specification	Unit
1	Operating Case Temperature	-30~+80°C	-
2	Storage Temperature	-40~+90°C	-
3	Relative Humidity(Non-condensing)	5~95%	-

## Pin Description

	Pin No.	Description	Specification
DC	A1	VDD	+28VDC
	A2	GND	Ground
	A3	NC	No Connection
Control	1	Over Power Alarm	Alarm : TTL "High"@ $\geq +50\text{dBm}$
	2	Reverse Power Alarm	Alarm : TTL "High"@ $\geq \text{VSWR } 3:1$
	3	High Temp. Alarm	Alarm : TTL "High"@ Temp. : $\geq +85^\circ\text{C}$ Shutdown, Auto-restart @ $+75^\circ\text{C}$
	4	GND	Ground
	5	Enable/Disable	Enable: TTL "Low", Disable: TTL "High"
	6	Forward Power Monitor	$4.0\text{V}@P_o=+44.8\text{dBm}$ , $100\text{mV/dB}$
	7	Reverse Power Monitor	$4.0\text{V}@P_o=+44.8\text{dBm}$ , $100\text{mV/dB}$
	8	Temperature Monitor	$V_o=(10\text{mV}/^\circ\text{C} \times \text{Temp}) + 500\text{mV}$
	9	GND	Ground

## Mechanical Dimension [Unit: mm]

