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Specification

1. Item

Product	850~930MHz 50W High Power Amplifier
Partnumber	EHM-0850-48-46

2. Revision History

Issued / Revision	R&D Approved	Revision Detail

Specification

850~930MHz 50W High Power Amplifier

Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: EHM-0850-48-46

General Specification

No.	Parameter	Specification	Unit
1	Operating Frequency Range	850~930MHz	-
2	Output Power(P1dB)	60	-
3	Gain	45dB typ.	-
4	Gain Flatness	±1.5dB typ.	-
5	Gain Variation	3dBp-p	-
6	Max. Input Power	+3dBm	-
7	Input VSWR	1.5	-
8	ACPR@40dBm, 5MHz LTE PAR : 9.8dB@CCDF 0.01%	-45dBc	-
9	Harmonics	-35dBc typ.	-
10	Spurious Signal	-60dBc	-
11	NF	18dB max.	-
12	EVM@40dBm	5%	-
13	Operating Voltage	28V	-
14	Current Draw@47dBm	6.5A max	-
15	Load VSWR	∞ : 1 VSWR	-

Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimension	203.2*101.6*25.4	-
2	Weight	1.0	kg
3	RF Connector	SMA Female	-
4	DC/Interface Connector	D-SUB 15Pin Male	-
5	Operating Case Temperature	-20 ~ +80℃	-
6	Storage Temperature	-40 ~ +90℃	-
7	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”@ ≥ VSWR 3:1
3	High Temp. Alarm	Alarm : TTL “High”@ Temp. : ≥ +95℃ Shutdown, Auto-restart @ +85℃
4	DC Fail Alarm	Alarm : TTL “High”@ ≤ +26V or ≥ +30V
5	Enable/Disable	Enable: TTL “Low”, Disable: TTL “High”
6	Forward Power Monitor	4.0±0.1V@Po=+47dBm, Center Frequency 4.0±0.15V@Po=+47dBm, Over Frequency
7	Reverse Power Monitor	3.0±0.1V@Po=+37dBm, Center Frequency 3.0±0.15V@Po=+37dBm, Over Frequency
8	Temperature Monitor	Vo=(10mV/°C x Temp) + 500mV
9,10	GND	Ground
11,12,13	VDD	+28VDC
14,15	GND	Ground

Mechanical Dimension [Unit: mm]