

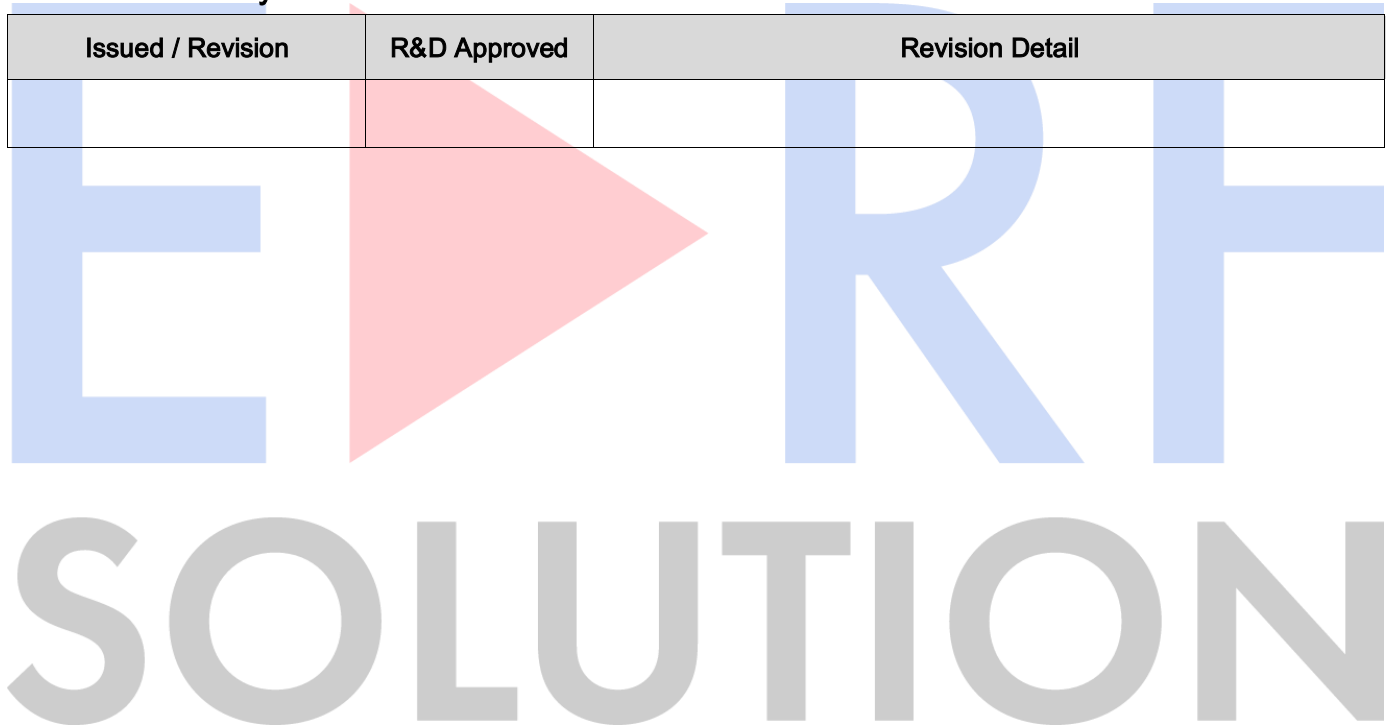
Specification

1. Item

Product	5100~6000MHz 50W High Power Amplifier
Partnumber	EHM-5100-46-46

2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: EHM-5100-46-46
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General Specification

No.	Parameter	Specification	Unit
1	Operating Frequency Range	5100~6000MHz	-
2	Output Power(Psat)	50W typ.	-
3	Gain	52dB typ.	-
4	Gain Flatness	±3.0dB typ.	-
5	Max. Input Power	-5dBm	-
6	Input VSWR	1.5	-
7	ACPR@40dBm, 5MHz LTE PAR : 9.8dB@CCDF 0.01%	-33 typ.	-
8	Harmonics	-35dBc typ.	-
9	Spurious Signal	-60dBc	-
10	NF	18dB	-
11	EVM@40dBm	5%	-
12	Operating Voltage	28V	-
13	Current Draw@47dBm	9A max	-
14	Load VSWR	∞ : 1 VSWR	Built-in Isolator

Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimension	203.2*101.6*25.4	-
2	Weight	1.0kg	-
3	RF Connector	SMA Female	-
4	DC/Interface Connector	D-SUB 9Pin Male	-
5	Operating Case Temperature	-20 ~ +80°C	-
6	Storage Temperature	-40 ~ +90°C	-
7	Relative Humidity(Non-condensing)	5~95%	-

Pin Description

Pin No.	Description	Specifications
1	Over Power Alarm	Alarm : TTL "High"@ >+47dBm
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

ECHO RF SOLUTION

■ Mechanical Dimension [Unit: mm]

