

# Specification


## 1. Item

Product	33dBm LPA
Partnumber	ELM-0390-33-45

## 2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: ELM-0390-33-45
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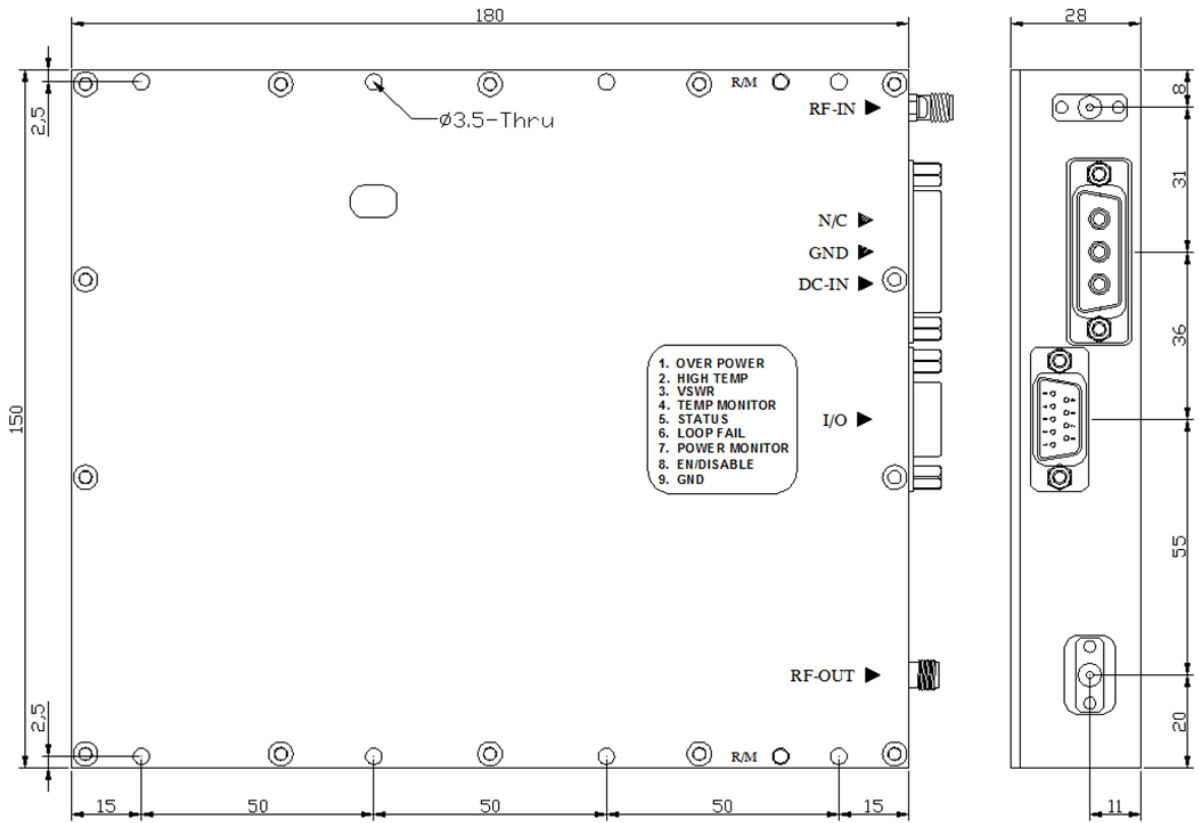
## General Specification

No.	Parameter	Specification	Unit
1	Operating Frequency Range	390~460MHz	Can be customized BW : 20MHz
2	Operating Bandwidth	See above	-
3	Output Power Level	33dBm	2W
4	IMD	<- 60dBc @ 100KHz Spacing CW 2Tone	@ +33dBm per CW
5	ALC Set Point	+33.5dBm	-
6	ALC Range	>= 10dB	@ after reaching the +33.5dBm
7	Gain	45dB ± 1.0dB	-
8	Gain Flatness	± 0.5dB	-
9	Gain Variation with Temperature	± 1.0dB max	-
10	Input / Output VSWR	1.5 :1 (max.)	@With in Isolator
11	Harmonic	-40dBc Max	-
12	Supply Voltage	DC +28V	Volt
13	Supply Current	2A Max.	A
14	Operating Temperature	-20°C ~ +60°C	Ambient temp.
15	Storage temperature range	-40°C ~ +85°C	-
16	Relative Humidity	0% ~ 90%	Non-condensing

## Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimension	150*180*28	W*D*H (mm)
2	Connector Type	SMA(F)	-
3	Pin Map (D-sub 9pin Male)	1. Over Power Alarm	Po=+34.5dBm±1dB , Shutdown High
		2. High Temp. Alarm	High (shut-down) / Low (Normal) Alarm & Shutdown : Higher than +90°C↑ Auto Recovery : Lower than +70°C↓ [ 70°C±5°C]
		3. VSWR Alarm	High (Alarm) /Low (Normal) / 22dBm(Output Open)
		4. Temp. Monitor	Vo=(T / 100)+500mV
		5. LPA Status	High (Inactive), Low (Active)
		6. Loop Fail Alarm	High (shut-down) / Low (Normal)
		7. FWD Power Monitor	2.5V@Po=+33dBm, 50mV/dB
		8. Enable/Disable	High (Disable) /Open & Low (Enable)
		9. GND	Ground
4	DC Fail Alarm (DC Fail Alarm function is integrated)	< 19V or >31V : Shutdown 21V~29V : Auto Recovery	-
5	Power Specification	3W3P Male Connector A1 : +27V, A2: GND, A3: NC	-

■ Mechanical Dimension [Unit: mm]



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