

Specification


1. Item

Product	700~800MHz 30W LTE Solidstate Amplifier
Partnumber	ESM-0700-45-47

2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: ESM-0700-45-47
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General Specification

No.	Parameter	Specification	Unit
1	Frequency Range	700~800MHz	-
2	Operating Bandwidth	100MHz typ.	-
3	Output Power	45dBm typ.	-
4	RF Gain	47dB typ.	-
5	Gain Flatness	1.5dB	-
6	Gain Variation over Temperature	-1.5~+1.5dB	-
7	ACLR (10MHz LTE, PAR 7.5dB)	45dBc min.	-
8	ACLR (10MHz LTE, PAR 7.5dB)	50dBc min.	-
9	Input VSWR	1.5 max.	-
10	Output VSWR	1.5 max.	-
11	Output Protection	Isolator min. / Isolator typ. / Isolator max.	-
12	Supply voltage	+28VDC typ.	-
13	Supply current	4.0TBD typ. / 5.0TBD max.	-

Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimensions	150*120*28 TBD	-
2	Operating Case Temperature	-20~+60°C	-
3	Storage Temperature	-40~+85°C	-
4	RF Connectors In/Out	Input: SMA (f), Output: SMA(f)	-
5	DC Connectors	9Pin-Dsub(m)	-
6	Cooling	External Heatsink	-

Interface Connector D-sub 9Pin

Pin No.	Description	Specifications
1	VCC	+28VDC
2	VCC	+28VDC
3	En/Disable	Open or Low : Enable, High: Disable
4	VSWR Alarm	Over 37dBm(Output Open), Only Alarm (Auto Recovery)
5	Forward Power Monitor	4.0V@Po=45dBm, 100mV/dB
6	Overpower Alarm	47dBm±1dB Shutdown (En/Disable Recovery)
7	GND	
8	GND	
9	Over Temp. Alarm	85±5oC Shutdown & 65±5oC (Auto Recovery)

Dimensions

