

Specification

1. Item

Product	2700~3100MHz 1kW Solidstate Amplifier
Partnumber	ESM-2700-59-35

2. Revision History

Issued / Revision	R&D Approved	Revision Detail



Design	R & D	Approval
		
CYKIM		

Customer:	Date:	Part No.: ESM-2700-59-35
-----------	-------	---------------------------------

General Specification

No.	Parameter	Specification	Unit
1	Frequency Range	2700~3100MHz	-
2	Output Power(Psat_pk)	800 / 750W min. / 1000 / 1000W typ.	-
3	Power Gain	33~37dB	-
4	Power Gain Flatness	±1.5 / ±2.0dBp-p	-
5	Pulse Width	120uS typ., Duty : 10%	-
6	Input Power	25dBm typ.	-
7	Input VSWR	1.5 max.	-
8	2nd Harmonic	-20dBc typ.	-
9	Spurious Signal	-60dBc min.	-
10	RF ON Time	1uS typ.	-
11	Operating Voltage	49~51V	-
12	Peak Current@1KW_pk	53A typ. / 55A max.	-
13	Protection	Temp. Shutdown : ≥ +85°C Shutdown, Auto-restart @ +75°C	-

Mechanical Specification

No.	Parameter	Specification	Unit
1	Dimensions	300(L)*200(W)*32(H)	-
2	Weight	2.5	-
3	RF Input Connector	N Type Female	-
4	RF Output Connector	N Type Female	-
5	DC Connector	Dsub 3W3 Male	-
6	M&C Connector	Dsub 9Pin Male	-
7	Operating Case Temperature	-20~+65°C	-
8	Storage Temperature	-40~+90°C	-
9	Relative humidity	5% min. / 95% max.	(non-condensing)
10	Altitude	30,000Feet max.	-

Interface Connector

Pin No.	Description	Specifications
DC A1	VDD	+50VDC
DC A2	NC	
DC A3	GND	Ground
M&C 1	Current Monitor	Analog Voltage(0~5VDC), 0.25V@1.5A(0.2V/1.0A)
M&C 2	Shutdown	ON : TTL "Low", OFF : TTL "High" (Internally Pulled-Low)
M&C 3	Temperature Monitor	$V_o = (10\text{mV}/^\circ\text{C} \times \text{Temp}) + 500\text{mV}$
M&C 4,7,8,9	NC	
M&C 5,6	GND	Ground

Dimension

