

1. Features

- ▶ High Performance
- ▶ High Reliability
- ▶ RoHS Compliant

20W GSM900 PA

Part No: RMA947.5 43 50 28

Date: May 9, 2014

Revision No: 00

2. Electrical Specifications

Parameter	Specification	Remark
Frequency Range	935 ~ 960 MHz	
Output Power	+43dBm	
IMD	65dBc @ 43dBm	@GSM 4 Carrier 250kHz Spacing
Gain	50±1 dB	
Gain Variation over Temp. Range	± 1.0 dB max@-20~60°C	
Gain Flatness	0.5 dB	
VSWR (In / Out)	1.5 : 1	
DC Current Consumption	9 A	@+28 Vdc

3. DC Power 3W3P Description

Pin No	Specification	Remark
Pin 1	VCC	DC +28V
Pin 2	GND	
Pin 3	NC	

4. I/O 9-pin D-sub Description

Pin No	Specification	Remark
Pin 1	EN/Disable Control	High: Disable , Low: Enable
Pin 2	Over Power Alarm	High: Shutdown , Low: Normal
Pin 3	GND	
Pin 4	Reverse Power Detection	
Pin 5	NC	
Pin 6	Forward Power Detection	
Pin 7	Over Temperature Alarm	Shutdown @ T=+90°C Auto-Restart @ T=+70°C
Pin 8	VSWR Alarm	VSWR > 3 : 1
Pin 9	NC	



5. Environmental Specifications

ITEM	Specification	Remark
Operating temperature	-20 °C ~ +60 °C	
Relative Humidity	0 to 95% RH (non-condensing)	
Cooling	External Heat sink	

6. Mechanical Specifications

ITEM	Specification	Remark
Dimensions	200 X 200 X30mm	Include Heat sink
RF Connector	RF IN :SMA-Female RF OUT : N-Female	
I/O Connector	9-pin D-sub(M)	
DC Power Connector	3W3P	

7. Outline Drawing

