

1. Features

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

380~530MHz 10W PA

Part No: RMA455 40 40 12

Date: January 26, 2014

Revision No: 00

2. Electrical Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Note
Operating Frequency	BW	380		530	MHz	
Output Power	Pout		40		dBm	
Small Signal Gain	Gss	39.5	40	40.5	dB	
Small Signal Gain Flatness	ΔG			± 1.0	dB	
Input VSWR			1.5 :1 min.			
Output VSWR			2.0 :1 min.			
Harmonics	H		-30		dBc	
Spurious	Spu		-60		dBc	
Operating Voltage	VDC	11.5	12	12.5	Volt	
DC Current Consumption	IDD		3.0	4.0	Amp	@40dBm

3. Mechanical specifications

Parameter	Specification	Note
Dimensions	160 x 140 x 25mm	
RF Connectors In/Out	SMA female	
DC and Interface Connectors	Dsub, 9-Pins, Male	
Cooling	External Heat sink	

4. Environmental Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Note
Operating Temperature	Tc	-20		+60	°C	
Storage temperature	Tstg	-40		+85	°C	
Relative Humidity (non condensing)	RH	0		95	%	



5. Interface connector

Pin No	Description	Specifications
1	FWD Power Monitor	3.0V@Po=+40dBm, 50mV/dB
2	Over Temp Alarm	TTL "High"@85±5°C, Shutdown
3	Over Power Alarm	TTL "High"@42dBm
4	NC	
5	Enable/Disable	TTL "Low" : Enable, "High" : Disable
6	VCC	+12VDC
7	VCC	+12VDC
8	GND	Ground
9	GND	Ground

6. Out Drawing

