MODEL MM0 0P53A
0. .0GHz
200 WATTS
NARROW BAND POWER RF AMPLIFIER

Advantages:

- Operating Frequency :0.8 1.0GHz
- Power Gain:28dB Typical
- Psat:200W Typical
- Supply Voltage:+28V
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	0.8		1.0	GHz
RF Output Power @Pin=25dBm	P_{sat}		200		Watt
Peak Output Power@920MHz	P_{out}	200			
Power Gain	G_p		28		dB
Power Gain Flatness	ΔG_p		±1		dB
Input Return Loss	S_{11}			-10	dB
Harmonics @100W	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time ,1kHz	$T_{ON/OFF}$		2	5	μs
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V_{DC}	26	28	30	Volt
DC Current @200W	I_{DD}		25		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	200x150x25 [7.87x5.9x0.98]	mm [inch]	Maximum
Weight	2.0[4.4]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	Hybrid, D-Sub 7-Pin, Male		
Cooling	External Heatsink Required(Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		60	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+27 dBm (Max)
Load VSWR @ P_{OUT} =100W	@ all load phase & amplitude for duration of 1 minute; 3:1 @ all load phase & amplitude continuous.
Over Temperature	85°C @ heatsink [restored @ 60°C]

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