

RF Power Amplifier Preliminary Specification

* Operating Frequency : 4900-5200 MHz

* Power Output: 15 Watts

* Gain : 40 dB

* Operation +28 Volts, +6Volts, -5Volts

Description: All Purpose Class AB Linear Power Amp

ELECTRICAL SPECIFICATION @ VDD= +28 VDC, +6V, Temp. = 30°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	4900		5200	MHz
Gain	G	39	41	45	dB
Gain Flatness	Δ G		±.5	±1.5	dB
Power Output	P 1 dB	41	42		dBm
Input return loss	S11		1.8:1	2.5:1	Ratio
Operating Voltage 1	Vdc	5.9	6	6.1	Volt
Operating Current 1	Id1		1.3	1.5	A
Operating Voltage 2	Vdc	27.5	28	28.5	Volt
Operating Current 2	Id2		1.5	1.7	A

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	TBD		inches
RF Connectors IN/OUT	Edge pin		
DC Connectors	Edge pin		

PROTECTIONS

	Max	
RF Input Power	4	dBm
Reverse Polarity Protection		
Load VSWR	5:01	RATIO

ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	-20		70	°C
Storage Temperature	Tstg	-55		125°C	°C

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Outline

Outline TBD; Flange with edge connecting pins, approximately 2.4 X 3.4 inches; 2 or 4 mounting slots, TBD; illustration for ref. only

