

RF Amplifier

* Operating Frequency : 6800-7800 MHz

* Gain : 25 dB

* NF: 0.7dB

* P1dB: 15dBm

ELECTRICAL SPECIFICATION @ VDD= +12 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	6800		7800	MHz
Gain	G	23	25	28	dB
Gain Flatness	Δ G		±0.75	±1.0	dB
Noise Figure	N.F.		0.7	1	dB
Output Power	P 1dB	13	15		dBm
VSWR in/out	S11/S22		1.8:1	2.0:1	Ratio
Operating Voltage	Vdc		12	15	Volt
Operating Current	Id		150		ma

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	0.86(L) x 0.70(W) x 0.29(H)		
Sealing	Hermetic		
Finished Coating	Gold Plate		
Cooling	None		
In/Out Connectors	SMA-M(In)/Female (Out) (Field Replaceable)		

PROTECTION

	Max	
RF Input Power CW	23	dBm
Reverse Polarity Protection	YES	
Internal Voltage Regulation	YES	
Stability	100% Tested	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-40		85	°C
Storage Temperature	Tstg	- 54C		85°C	°C
Altitude			Up to 30,000ft		
Vibration			12G 20-2000 Hz(Operating)		
			16 G 20-2000 Hz(Non-Operating)		
Shock			20G terminal peak saw tooth, 11 milliseconds		

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Outline Drawing

