

## APTMP5-00200005-1627-D9-LN

### Low Noise RF Amplifier

- \* Operating Frequency : 20-500 MHz
- \* Linear Power : +27 dBm
- \* Noise Figure : 1.6 dB
- \* High Gain : 60 dB



#### ELECTRICAL SPECIFICATION @ VDD= +15VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	20		500	MHz
Gain	G	55	60		dB
Gain Flatness	$\Delta$ G		$\pm 0.3$	$\pm 1.5$	dB
Reverse Isolation	S 12		-60		dB
Noise Figure	NF		1.6	1.8	dB
Power Output P1dB	P1dB	25	27		dBm
Output 3rd Order Intercept Point	OIP3	35	37		dBm
VSWR in/out	S11/S22		1.6 :1	2.0 :1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		440	500	mA

#### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.5x1x.5		in
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		
Cooling	None		

#### PROTECTIONS

RF Input Power	-10 dBm Max	
Reverse Polarity Protection	Optional	
Load VSWR		
Stability	100%	

#### ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0		50°C	°C
Storage Temperature	Tstg	-40		100°C	°C

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### Outline Drawing

