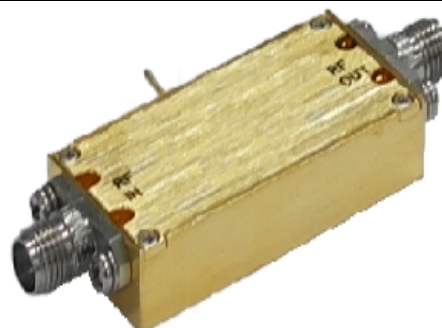


LNA1019A-3 SOLID STATE LOW NOISE AMPLIFIER

FEATURES

Class A linear design Coax Power Amplifier
 Low noise over wide-bandwidth
 RF Ports Matched to 50 Ohms
 Internal DC Voltage Regulation
 Suitable for all single channel modulation standards
 Unconditional stability high reliability and ruggedness
 Reverse polarity protection with built-in protection circuits



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 18.0 GHz	CW
Power Output @ P1dB	20 dBm Min	22dBm Typ
Power Gain	20 dB Min	27 dB Typ
Gain Flatness	2.0 +/- dB p-p Max	
Input Return Loss	-10 dB Max	
Noise Figure	4.0 dB Max	
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	13 - 18 VDC Nom	15VDC Typ
Current Consumption	0.350 Amp Max	
Input Power Protection	+8 dBm Max	
Load VSWR Protection	5 : 1 Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-40 to +75 °C	
Storage Temperature	-65 to +125 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport ¹	

¹ MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	18.1 x 16.3 x 7.7 mm	Excluding connectors
Weight	10 gr. Typ	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed-Thru	
Cooling	External Heatsink	Forced air required

FEED THRU PIN ASSIGNMENT

Pin	Function	Description
1	VDD	15VDC
2	GND	Ground

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OUTLINE DRAWING

