

## Description

- Internal voltage regulator, reverse voltage protection, temperature compensation, and DC filter feed through are included.
- Amplifier is available in a field removable SMA (f) connectorized or waveguide housing. Amplifier is hermetically sealed.
- ATP (100%) testing includes Gain, Flatness, NF, P1dB, VSWR, and DC Current measurement at room temperature.



## Electrical Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	18.3		20.2	GHz
Gain	33		36	dB
Gain Flatness vs Freq.			±1.0	dB
Noise Figure			1.5	dB
P1dB	+10			dBm
Input			1:4:1	ratio
Output		2:0:1		ratio
DC Power		150		mA
Operating Temperature	-20		+70	°C

(Specifications at 25 °C unless otherwise stated)

## Outline

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REVISIONS				
ECN#	REV	DESCRIPTION	DATE	APPROVED
-	-	RELEASED	1/10/2012	S. GALBREATH

**NOTES:**

1. WAVEGUIDE FLANGE FINISH IS GOLD PLATE PER MIL-DTL-45204.
2. ALL REMAINING EXTERNAL SURFACES ARE PRIMED AND PAINTED PER MIL-PRF-22750, GREY, FED-STD-595 COLOR No. 26307
3. MARK AS SHOWN IN BLACK. MARK DATE CODE AND SERIAL NUMBER AS DEFINED BY TRAVELER.
4. LNA IS TO BE SUPPLIED WITH TWO (2) O-RINGS  
P/N: 106B-0092 (SAS INDUSTRIES) OR EQUIVALENT.
5. THIS IS A STATIC SENSITIVE DEVICE. HANDLE ACCORDINGLY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE DECIMALS XX + SIZE XXX ± 0.005	THIRD ANGLE PROJECTION
MATERIAL: ALUM ALLIYS 6061 AND 4047	ENGR
FINISH: NOTED	MFG ENGR
DD NOT SCALE DRAWING	QA
	RELEASED BY:

DESIGNED BY: AN & SH	CHECK BY: SH
APPROVED	DATE
ENGR	
MFG ENGR	
QA	
RELEASED BY:	

TITLE: OUTLINE, AML1820L3611 LNA, Ka BAND, HIGH PERFORMANCE	
SCALE: NTS	DATE: 1/10/12
GENERAL FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED) 1. REMOVE ALL BURRS AND BREAK SHARP EDGES 0.05 MAX. 2. DIMENSIONS APPLY AFTER FINISH. 3. 32 MAX. MACHINE FINISH. 4. INTERPRET DRAWING PER ANS/ASME Y14.5-2009	

BOM NUMBER: AML1820L3611	
SHEET NUMBER: 1 OF 1	SIZE: B
DRAWING NUMBER: 002-1066	REV: -