

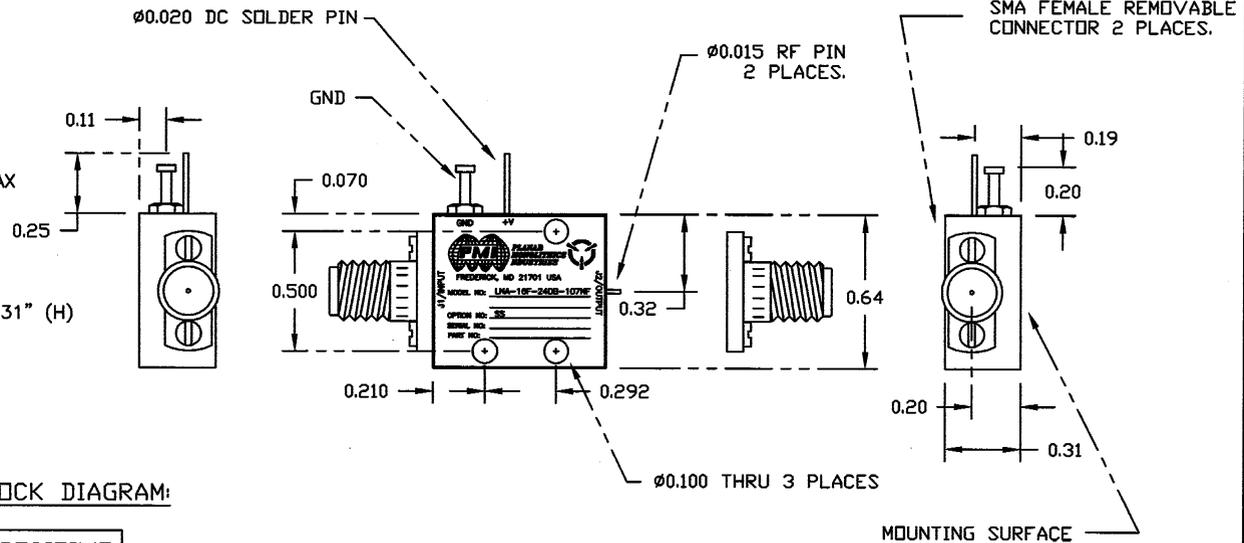
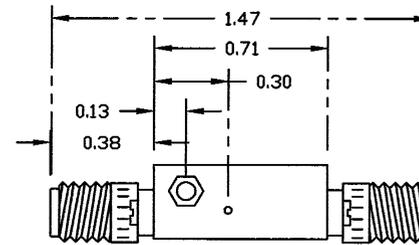
DESCRIPTION:

LNA-16F-24DB-107NF OPTION SS IS AN ULTRA LOW NOISE MINIATURE AMPLIFIER WITH A CENTER FREQUENCY OF 16.25 GHz AND A ±250 MHz BANDWIDTH USING THE LATEST HYBRID MIC/MMIC TECHNOLOGY WITH BUILT IN REGULATION AND TEMPERATURE COMPENSATION CIRCUITRY FOR USE IN MILITARY AND RUGGED ENVIRONMENTS

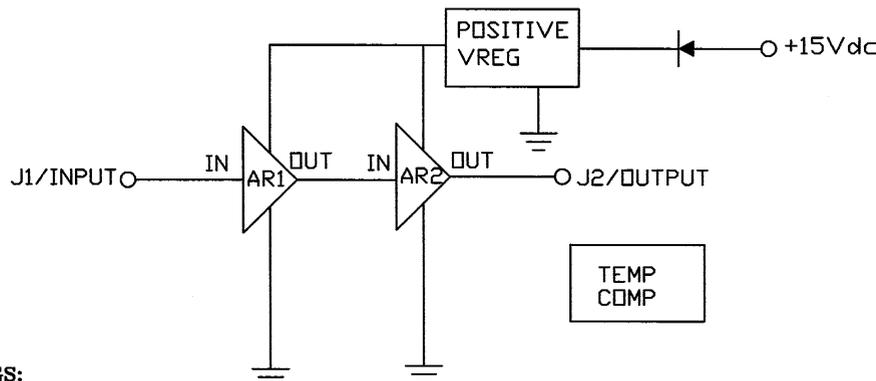
ZONE		REV.	DESCRIPTION	DATE	APPROVED
		-	ORIGINAL RELEASE	10/5/99	

SPECIFICATIONS:

- FREQUENCY RANGE: 16.25 GHz, ±250 MHz
- GAIN WINDOW: 23 TO 25 dB, @ OVER FREQUENCY AND TEMPERATURE
NOTE: OVER TEMPERATURE IS OPERATING TEMPERATURE
- NOISE FIGURE: 1.6 dB, MAX @ ROOM TEMPERATURE(+25°)
1.8 dB, MAX @ +30°
1.9 dB, MAX @ +75°
2.0 dB, MAX @ +85°
- GAIN FLATNESS vs. FREQUENCY: ±0.5 dB, MAX
- 1 dB COMPRESSION POINT: +10 dBm, MIN.
- BURN OUT INPUT POWER LEVEL: +15 dBm, CW
- POWER SUPPLY: +15V, ±10% @ 150 mA MAX
- INPUT/OUTPUT VSWR: 1.8:1 MAX
- CONNECTORS: SMA FEMALE (REMOVABLE)
- SIZE: 0.71" (L) x 0.64" (W) x 0.31" (H)
- WEIGHT: 0.35 OZ TYP.



DUT BLOCK DIAGRAM:



ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-55°C TO +85°C (STORAGE)
- HUMIDITY: 98% MAX RELATIVE HUMIDITY
- VIBRATION: 0.04g²/Hz FROM 10 TO 2000 Hz FOR 2 MINUTES

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

CONTRACT NO.		PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
K SIMMS	10/5/99	PRODUCT FEATURE LNA-16F-24DB-107NF OPTION SS	
CHECKED		SIZE	FSCM NO.
ISSUED		A	OZXZ8
		DWG NO.	100-5090
		SCALE	N/S
		SHEET	1 of 2