

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		ORIGINAL RELEASE	5/20/09	
B		ADDED BUMP-OUT FOR J3	7/10/09	

**DESCRIPTION**

PMI MODEL PEC-18-2D35G-1R75-9-SFF-BPF-HS-LM IS AN INTEGRATED MODULE COMBINING A LOW NOISE AMPLIFIER, BAND PASS FILTER, OUTPUT LIMITER, AND RF BLANKING SWITCH. THE FREQUENCY PASSED IS 2350 MHZ WITH A 1 DB BANDWIDTH OF 150 MHZ. THIS MODULE HAS A TYPICAL GAIN OF 18 DB. THE OUTPUT POWER IS LIMITED TO +2 DBM WHILE THE INPUT CAN HANDLE UP TO +30 DBM.

**SPECIFICATIONS**

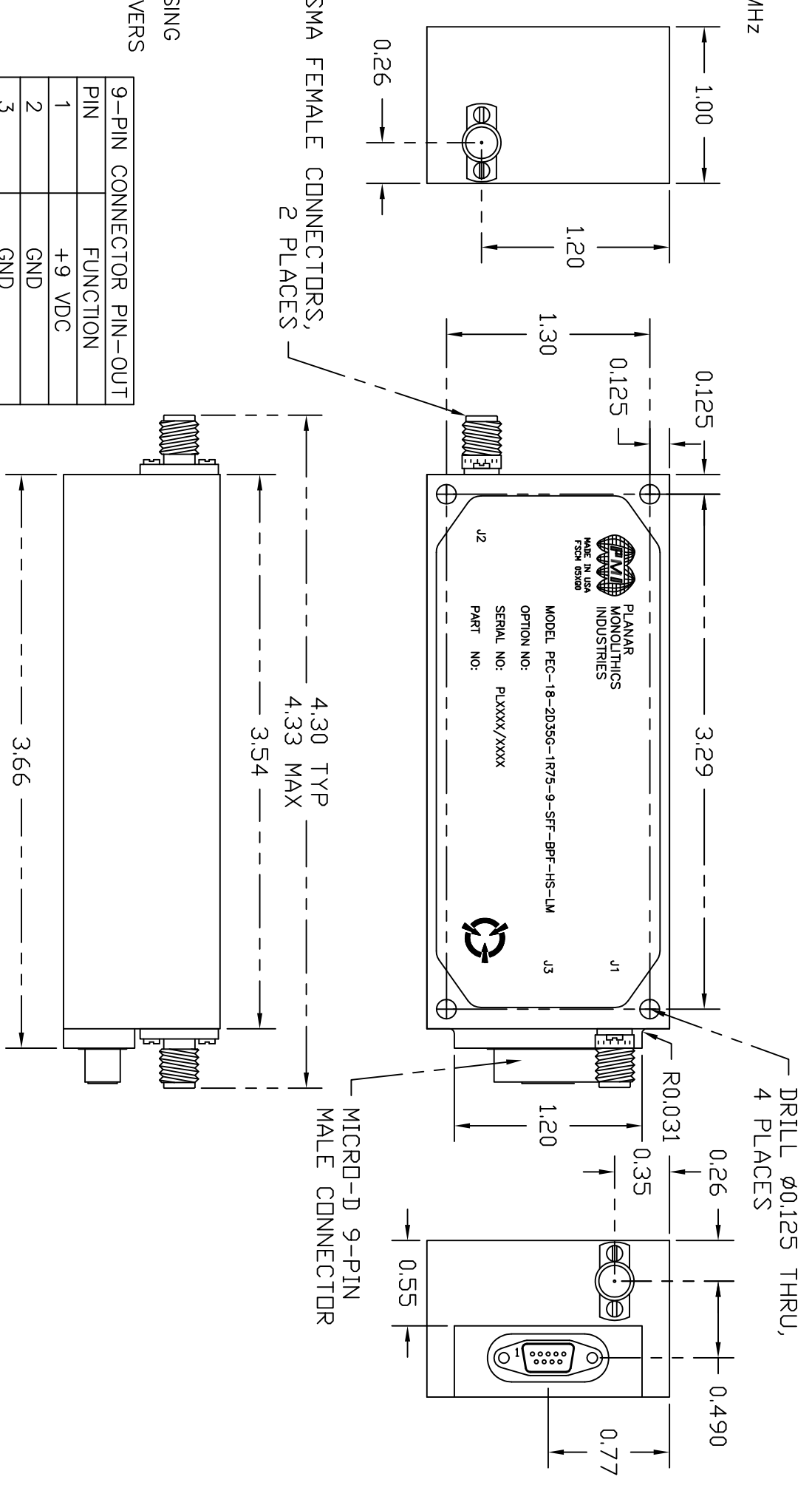
- GAIN:..... 18 DB TYPICAL
- NOISE FIGURE:..... 2.0 DB MAX
- OUTPUT POWER:..... +2 DBM MAX
- INPUT POWER:..... +30 DBM CW MAX
- -30 DBc REJECTION:..... @ 2100 MHZ AND 2600 MHZ
- -1 DB BANDWIDTH:..... 150 MHZ TYPICAL
- CENTER FREQUENCY:..... 2350 MHZ
- RF BLANKING SWITCH ISOLATION:..... 40 DB MIN
- RF BLANKING SWITCH CONTROL:..... DIFFERENTIAL CONTROL  
A > B = 'ON'  
B > A = 'OFF'
- RF BLANKING SWITCHING SPEED:..... 100 NS MAX
- VSWR IN/OUT:..... 2.0 : 1 MAX
- EMI SHIELDING:..... > 60 DB @ 1 FOOT AWAY FROM DUT
- DC VOLTAGE:..... +9 VDC
- CONNECTORS IN/OUT:..... SMA (F)
- SIZE:..... 4.30" X 1.55" X 1.00"
- WEIGHT:..... < 12 OUNCES
- FINISH:..... HERMETICALLY SEALED  
ALUMINUM 6061-T6 HOUSING  
WITH ALUMINUM 4047 COVERS  
PAINTED GRAY

**ENVIRONMENTAL RATINGS**

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-810F, METHOD 507.4
- SHOCK:..... MIL-STD-810F, METHOD 516.5
- VIBRATION:..... MIL-STD-810F, METHOD 514.5
- ALTITUDE:..... MIL-STD-810F, PROCEDURE II
- TEMPERATURE CYCLE:..... MIL-STD-810F, METHOD 503.4, PROCEDURE I

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**MECHANICAL OUTLINE**



9-PIN CONNECTOR PIN-OUT	PIN	FUNCTION
1		+9 VDC
2		GND
3		GND
4		CTL-A
5		CTL-B
6		GND
7		GND
8		GND
9		GND

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

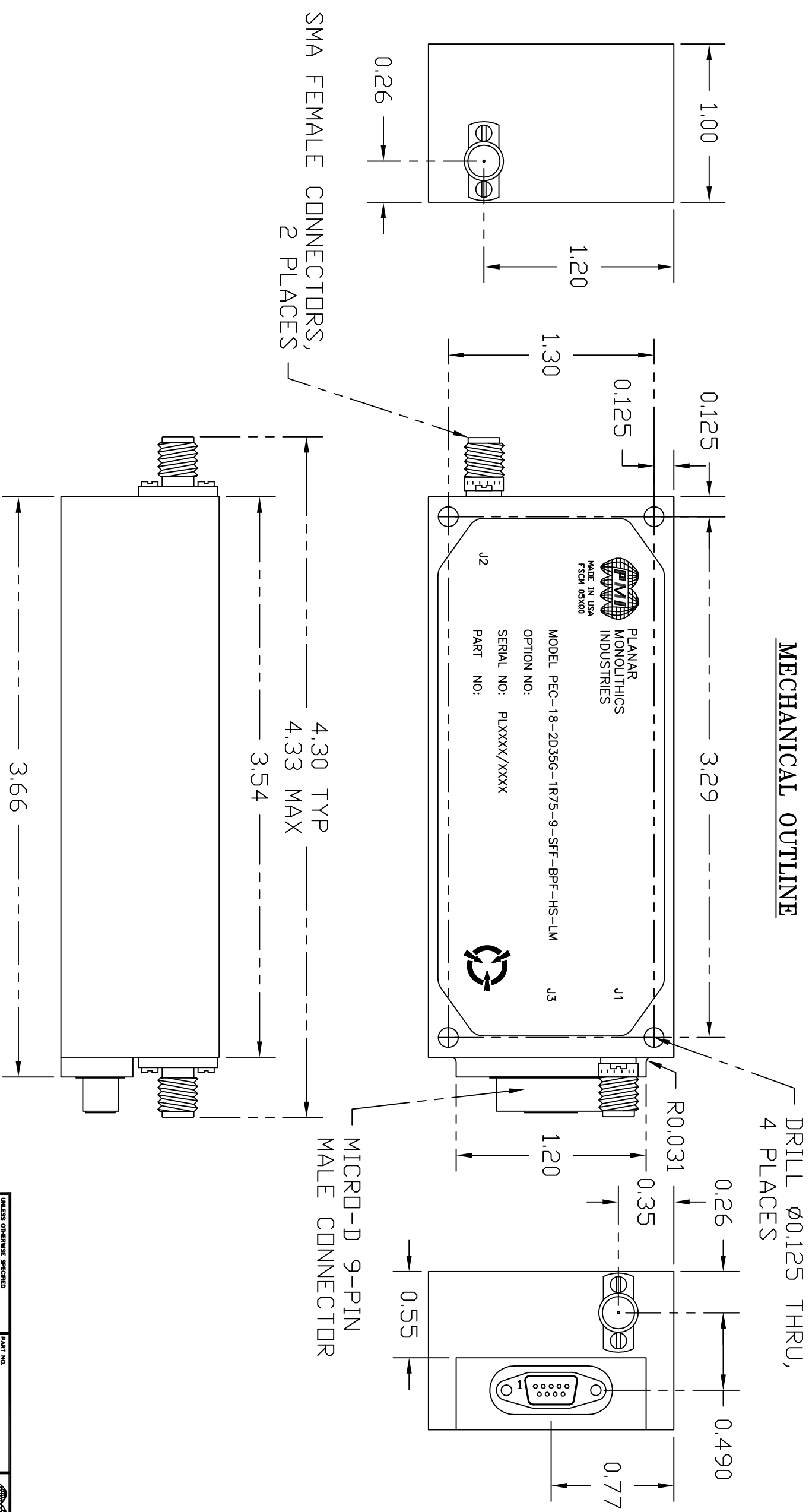
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES X.XX ±0.020 X.XXX ±0.010		PART NO.	APPROVALS		DATE
MATERIAL: ALUMINUM ALLOY 6061-T6	FINISH: 50 UIN. GOLD PLATING MIN. OVER COPPER FLASH OVER NICKEL FLASH PER MIL-G 45204 TYPE 2				5/20/09
DO NOT SCALE DRAWING		TITLE	DRAWN		ISSUED
		PLANAR MONOLITHICS INDUSTRIES 5715 INDUSTRY LANE UNIT 11 FREDERICK, MARYLAND	2992		
		PEC-18-2D35G-1R75-9-SFF-BPF-HS-LM	DWG NO.		REV
			27010641		B
			SCALE N/S		SHEET 1 OF 2

**DESCRIPTION**

PMI MODEL PEC-18-2D35G-1R75-9-SFF-BPF-HS-LM IS AN INTEGRATED MODULE COMBINING A LOW NOISE AMPLIFIER, BAND PASS FILTER, OUTPUT LIMITER, AND RF BLANKING SWITCH. THE FREQUENCY PASSED IS 2350 MHZ WITH A 1 DB BANDWIDTH OF 150 MHZ. THIS MODULE HAS A TYPICAL GAIN OF 18 DB. THE OUTPUT POWER IS LIMITED TO +2 dBm WHILE THE INPUT CAN HANDLE UP TO +30 dBm.

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**MECHANICAL OUTLINE**



SMA FEMALE CONNECTORS,  
2 PLACES

DRILL Ø0.125 THRU,  
4 PLACES

MICRO-D 9-PIN  
MALE CONNECTOR

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .005 ± .005 ± .005		PART NO.	
MATERIAL: ALUMINIUM ALLOY 6061-T6		APPROVALS	
FINISH: 50 uin. GOLD PLATING MIN. OVER COPPER FLASH OVER NICKEL FLASH PER MIL-G 45204 TYPE 2		DATE 5/20/09	
DO NOT SCALE DRAWING		TITLE PLANAR MONOLITHICS INDUSTRIES 5715 INDUSTRY LANE UNIT 11 FREDERICK, MARYLAND	
NEXT ASSY		SIZE B	
USED ON		DWG NO. 27010641	
APPLICATION		SCALE N/S	
		SHEET 2 OF 2	

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