

## Description:

PMI Model Number PM2-34-218-15-SFF-1 is a 2.5 to 18.0 GHz low noise amplifier that has the following specifications.

## Specifications:

1.1 Frequency Range:	2.5 to 18.0 GHz
1.2 Gain Window:	32.0 to 36.0dB @ -40°C - +95°C 32.0 to 37.0dB @ -54°C- +95°C
1.3 Gain Flatness:	+/- 1.5dB Max.
1.4 Noise Figure:	4.7dB Max.
1.5 OP1dB:	+16dBm Min.
1.6 Max Input Power:	+15dBm CW Max.
1.7 VSWR Input/Output:	2.0:1 Max.
1.8 DC Voltage Supply:	+15VDC +/-10%
1.9 DC Current Draw:	350mA Max.
2.0 Connectors In/Out:	RF Pins
2.1 Finish:	Gold Plated

**NOTE:** See FIGURE 1 For Definition For Para. 1.2 and 1.3  
All specifications to be met over the operating temperature range.

## Test Data Requirements:

The following test data shall be provided.

- At +25°C  
Para. 1.2,1.3, 1.5, 1.6 and 1.9
- At +95°C  
Para. 1.2, 1.3, 1.4 and 1.9
- At -54°C  
Para. 1.2, 1.3 and 1.9
- At -40°C  
Para. 1.2, and 1.3

Table 1-1: Temperature Shock (Test Condition)

Condition	(Test Step)	Temp (°C)	Time for Exposure (Minute)
1		-55	30 Min
2		+25	5 Max
3		+95	30 Min
4		+25	5 Min

Note: The above specifications are subject to change or revision.

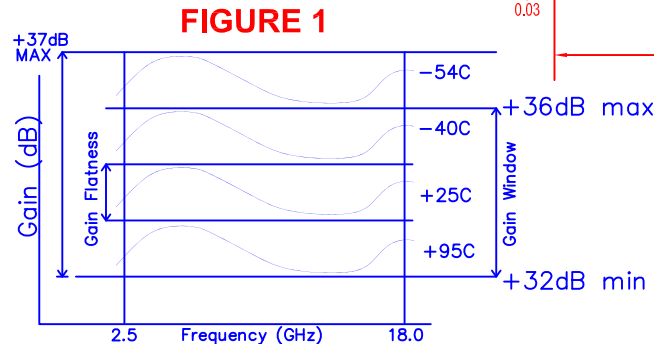
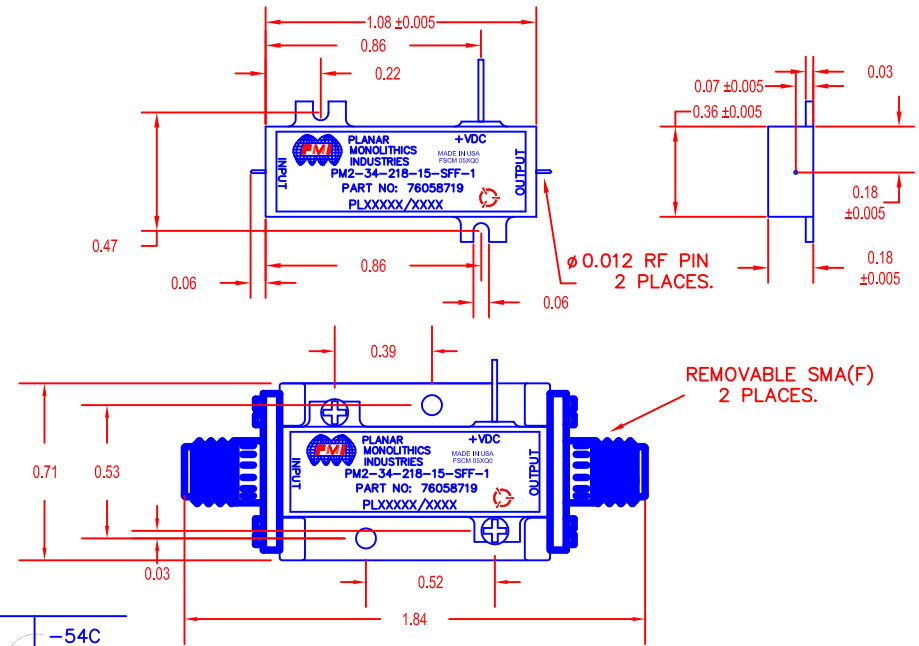
## Environmental Ratings:

Temperature:	-54 to +95 Deg. C (Operating), MIL-E-5400K TABLE I, CLASS 3, COLUMN I. -62 to +125 Deg. C (Storage), MIL-E-5400K TABLE I, CLASS 3 COLUMN IX
Altitude:	70,000 ft, MIL-STD-202F, METHOD 105C TEST COND C
Vibration:	MIL-STD-202F, METHOD 214A, Table 214-I, TEST COND H -Testing Time: 4h/Axis x 3 Axis = 12h
Shock:	MIL-STD-202F, METHOD 213B TEST COND A. -Testing Procedure: 3 Axis/6 Direction -Resting cycle: 3 for each Axis (18 Total)
Humidity:	90-98%(Relative) MIL-STD-202F, METHOD 106F
Temperature Shock:	MIL-STD-202F, METHOD 107G -Test Condition as follows: Number of Cycles = 10

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	7/18/13	
	A1	ECN # 13-0224	12/18/13	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>gy</i>		07/18/13	PRODUCT FEATURE PM2-34-218-15-SFF-1		
MODIFIED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27020281
ISSUED			SCALE N: S		SHEET 1 OF 1
					REV. A1