

Description:

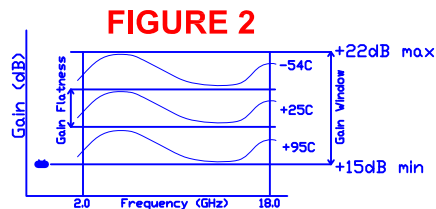
Model Number: PEAFS3-12-218-15-SFF-1 is a 2 to 18 GHz low noise amplifier.

Specifications:

1.1 Frequency Range:	2 to 18 GHz
1.2 Gain:	+15dB Min. +22dB Max. (Unit To Unit Gain Tracking vs. Temperature Shall Be Per FIGURE 2)
1.3 Gain Flatness:	+/- 2.0dB Max (2-18GHz) +/- 0.75dB Max (500MHz Bandwidth at any Frequency)
1.4 Return Loss, In/Out:	9.5dB min.
1.5 Noise Figure:	5.0dB Max (2 - 4GHz) 4.1dB Max (4 - 18GHz)
1.6 OP1dB:	+9dBm Min(@2GHz, 10GHz, 18GHz)
1.7 DC Voltage Supply:	+15VDC ($\pm 5\%$)
1.8 DC Current Draw:	180mA Max.
1.9 Max Input Power:	+5 dBm CW
2.0 Weight:	10.0g Max
2.1 Connectors In/Out	SMA Female
2.2 Finish:	Gold Plated

Available Options:

Various Package types
Various Connector types
Temperature Compensation
Gain and Phase Matching
MIL-STD-883 Screening Available



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 -Testing 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

Test Data Requirements:

The following test data shall be provided.

- At +25°C
Para. 1.2-1.4, 1.6 and 1.8
- At +95°C
Para. 1.2, 1.3, 1.5 and 1.8
- At -54°C
Para. 1.2, 1.3 and 1.8

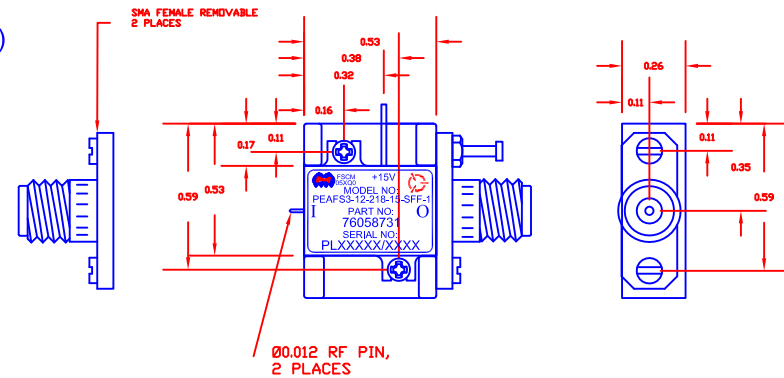
Table 1-1: Temperature Shock (Test Condition)

Condition (Test Step)	Temp (°C)		Time for Exposure (Minute)
1	-55	+0/-5	60 Min
2	+25	+10/-5	5 Max
3	+95	+3/-0	60 Min
4	+25	+10/-5	5 Max

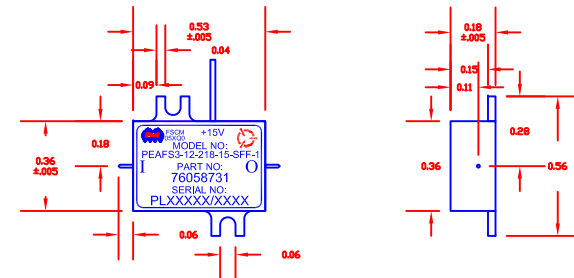
Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	Original Release	7/18/19	
	A1	ECN # 13-0225	12/12/19	
	B1	ECN # 22-0003	1/20/22	
	B2	ECN # 22-0140	11/8/22	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>afk</i>		04/13/11	PRODUCT FEATURE PEAFS3-12-218-15-SFF-1			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27020301	B2
			SCALE	N:S	SHEET	1 OF 1