

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.

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

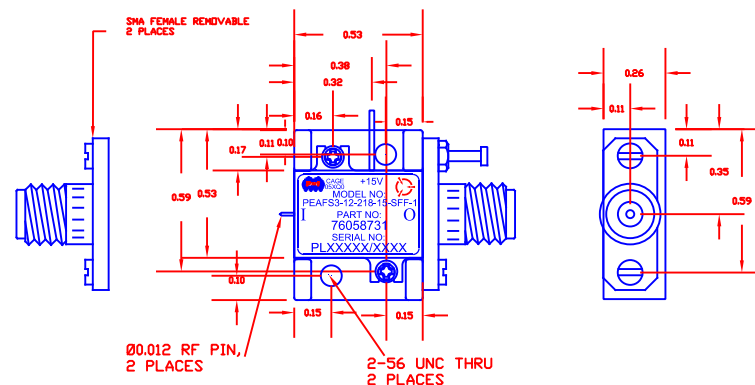
Table 1-1: Temperature Shock (Test Condition)

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

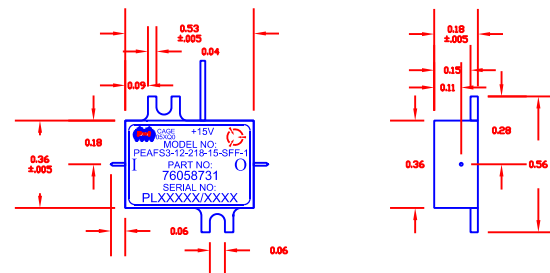
Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	Original Release	7/18/13	
	A1	ECN # 13-0225	12/12/13	
	B2	ECN # 22-0140	11/8/22	
	C1	ECN # 25-0013	1/21/25	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		DATE		PRODUCT FEATURE	
CHECKED		DATE		PEAFS3-12-218-15-SFF-1	
ISSUED		DATE		SIZE FSCM NO. DWG NO. REV.	
				A 05XQ0 27020301 C1	
				SCALE N:S SHEET 1 OF 1	