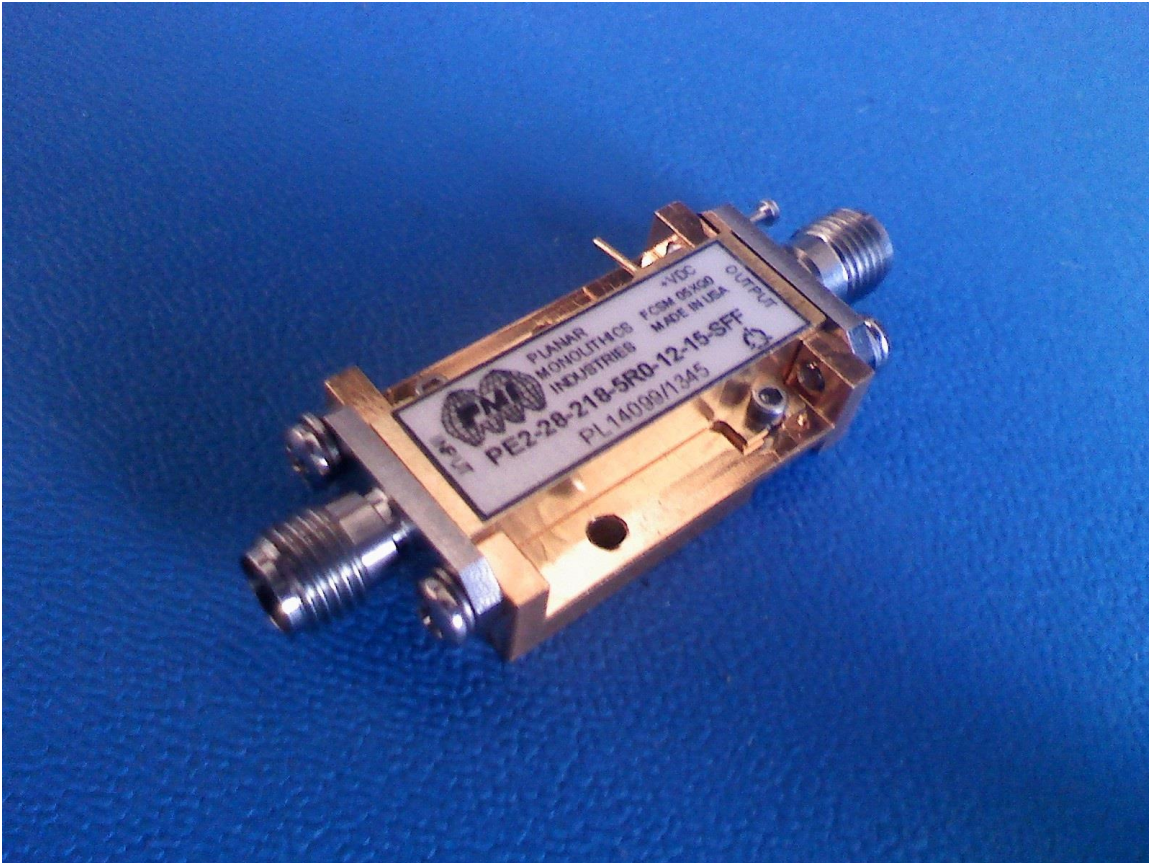




Typical Characteristics On PE2-28-218-5R0-12-15-SFF

PMI Model PE2-28-218-5R0-12-15-SFF is designed for Military and Industrial applications operating over a Frequency Range of 2.0 to 18.0 GHz. This amplifier is supplied in our standard PE2 housing that can be used as a SMA connectorized or a surface mount component.



September 30, 2013
Designed By: Kevin Mason

Tested & Reported by:
Edwin Benson & Ken Schwarz



Typical Characteristics On PE2-28-218-5R0-12-15-SFF

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/14/19	

PE2 HOUSING WITH CARRIER

PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)

PMI CONFIDENTIAL AND PROPRIETARY

Description:

PMI model # PE2-28-218-5R0-12-15-SFF is designed for Military and Industrial applications operating over the frequency range of 2.0 to 18.0 GHz. This amplifier is supplied in our standard PE2 housing that can be used as a SMA connectorized or a surface mount component.

This model provides the following performance.

Specifications:

- Frequency Range: 2.0 to 18.0 GHz
- Gain: +24dB Min.
- Flatness: +/- 2.0dB Max.
- Noise Figure: 4.5dB Max.
- OP1dB: +14dBm Min.
- VSWR Input/Output: 1.9:1 Max.
- DC Voltage Supply: +15VDC
- DC Current Draw: 200mA Max.
- Connectors In/Out: SMA Female
- Finish: Gold Plated

Features:

- Internal Voltage Regulation
- Unconditional Stability
- Standard Operating Temperature -25 to +85 Deg. C

Environmental Ratings:

- Temperature: -25 to +85 Deg. C (Operating); -55 to +85 Deg C (Available); -55 to +125 Deg. C (Storage)
- Humidity: MIL-STD-202F, METHOD 103B COND B.
- Shock: MIL-STD-202F, METHOD 213B COND B.
- Altitude: MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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

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 9001:2008 CERTIFIED

APPROVALS	DATE	TITLE	PRODUCT FEATURE
AWG	08/14/19	PE2-28-218-5R0-12-15-SFF	

DRAWN	SIZE	TSCM NO.	DWG NO.	REV.
AWG	A	05X00	27007903	A1
CHECKED	SCALE	N/S	SHEET	1 OF 1
ISSUED				

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



**Typical Characteristics
On
PE2-28-218-5R0-12-15-SFF**

Test Summary

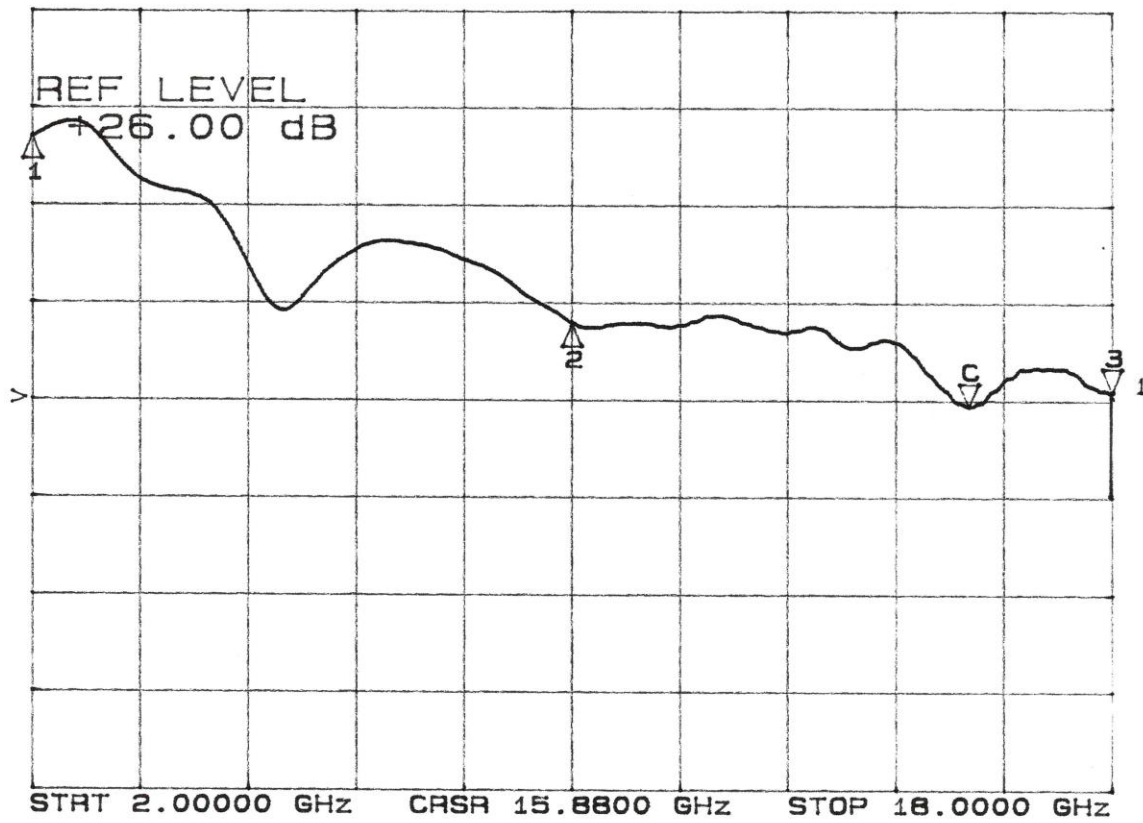
TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS
1	Frequency Range:	2.0 to 18.0 GHz	2.0 to 18.0 GHz
2	Gain:	+24dB Min.	25.9 dB (See Plot)
3	Flatness:	±2.0dB Max.	± 1.45 dB
4	Noise Figure:	4.5dB Max.	4.31 dB
5	Pout @ 1dB Compression:	+14dBm Min.	+14.4 dBm
6	VSWR In/Out:	1.9:1 Max.	1.8:1 / 1.4:1 (See Plot)
7	DC Supply:	200mA @ +15 VDC Max.	112 mA
8	Operating Temp.:	-25 to +85°C	-25 to +85°C



Typical Characteristics On PE2-28-218-5R0-12-15-SFF

Gain Plot

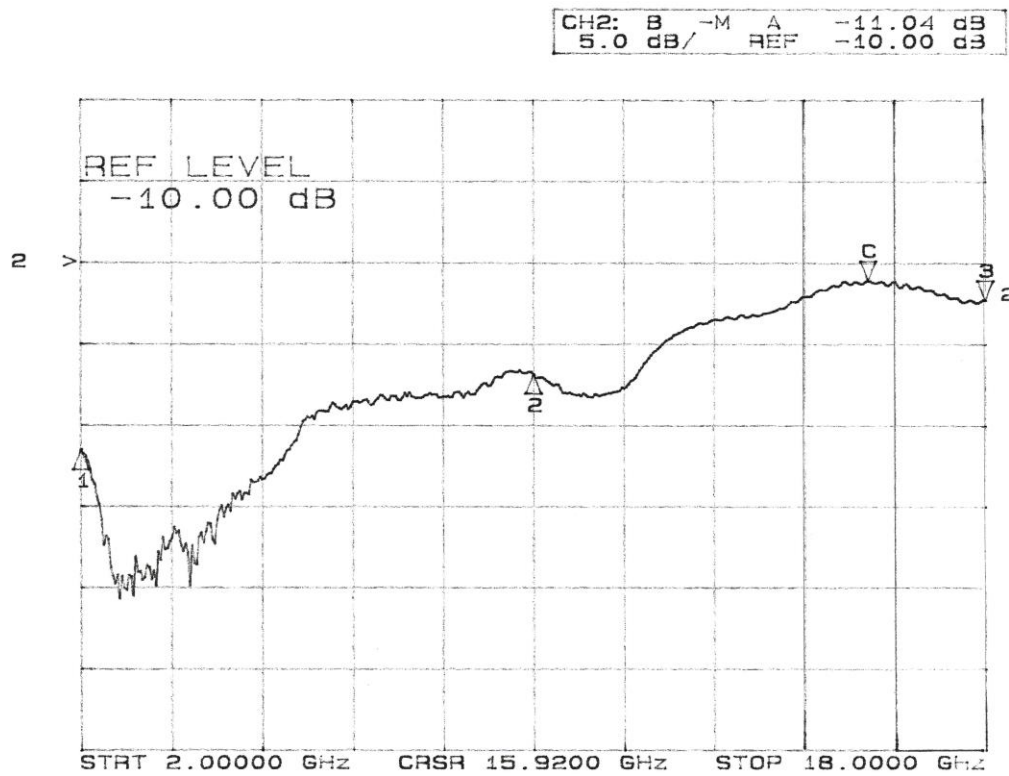
CH1:	A	-M	SA	+25.93 dB
	1.0 dB/		REF	26.00 dB





Typical Characteristics On PE2-28-218-5R0-12-15-SFF

Input Return Loss





Typical Characteristics On PE2-28-218-5R0-12-15-SFF

Output Return Loss

