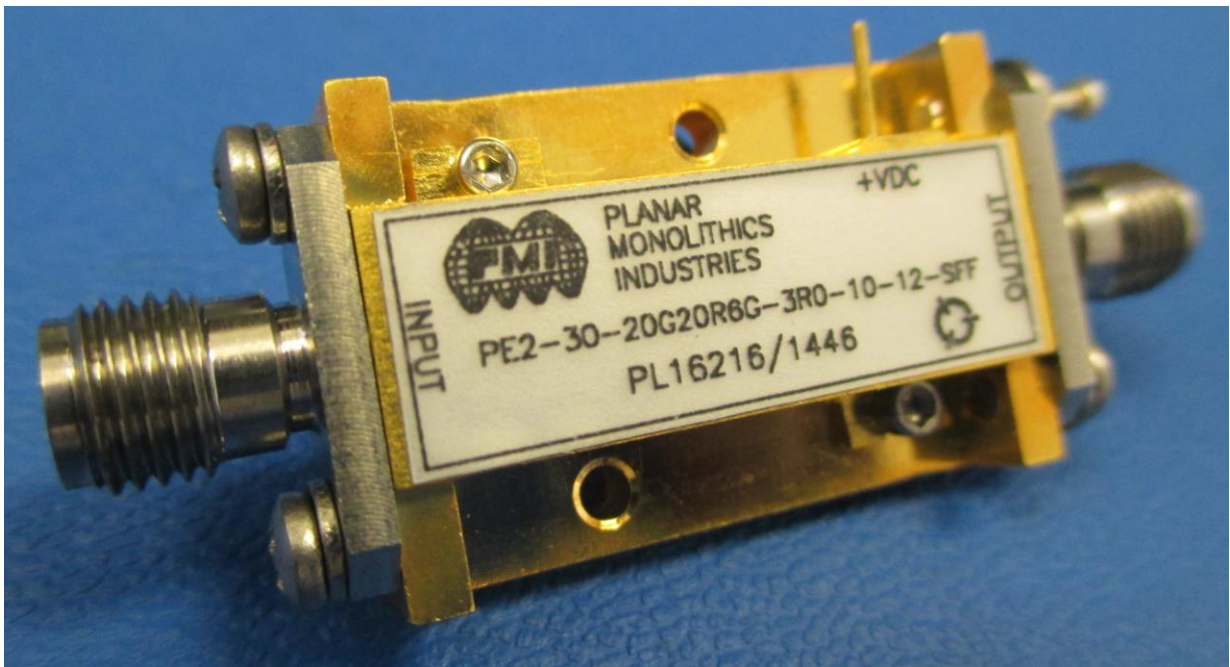




**TYPICAL CHARACTERISTICS
ON
PE2-30-20G20R6G-3R0-10-12-SFF**

PMI model number PE2-30-20G20R6G-3R0-10-12-SFF is a low noise amplifier capable of operating between the frequency range of 20.0 to 26.0 GHz. This amplifier is supplied in our standard PE2 housing that can be used as an SMA Connectorized or a surface mount component.



November 25, 2014

Designed By: Kevin Mason

Tested & Reported by:
Edd Benson & Harold Holvick



TYPICAL CHARACTERISTICS ON PE2-30-20G20R6G-3R0-10-12-SFF

Description:

Model Number PE2-30-20G20R6G-3R0-10-12-SFF is a 20.0 to 26.5 GHz low noise amplifier. 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. Data is available upon request.

Specifications:

Frequency Range:	20.0 to 26.5 GHz
Gain:	+30dB Typ.
Gain Flatness:	+/- 1.5dB Max
Noise Figure:	3.0dB Max
OP1dB:	+10dBm Min.
VSWR Input/Output:	2.0:1 Max.
Impedance:	50 Ω
DC Voltage Supply:	+12 to +15VDC
DC Current Draw:	150mA Max.
Connectors In/Out:	SMA Female
Finish:	Gold Plated

Features:

Internal Voltage Regulation
Unconditional Stability

Available Options:

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

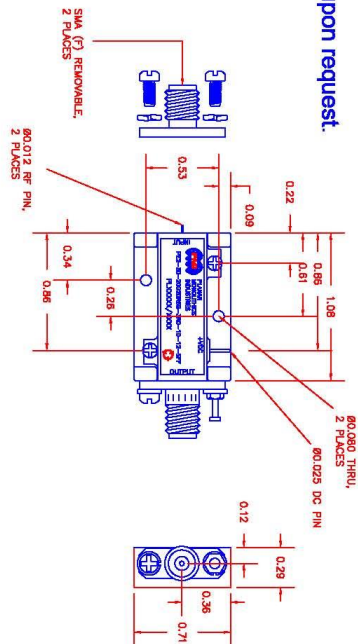
Environmental Ratings:

Temperature:	-54°C to +99°C (Operating)
	-65 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

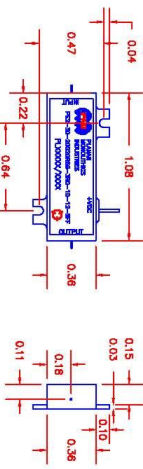
Note: The above specifications are subject to change or revision.

REVISIONS		DATE	APPROVED
ZONE	REV.	DESCRIPTION	
	1	ORIGINAL RELEASE	7/28/14
	A1	ECN # 14-0136	08/11/14

PE2 HOUSING WITH CARRIER



PE2 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	PRODUCT FEATURE
DESIGN	7/28/14	PE2-30-20G20R6G-3R0-10-12-SFF	
CHECKED		SIZE FROM NO.	DRW NO.
ISSUED		A 05X00	270063562
		SCALE N/S	SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX .0100
XXX .010



**TYPICAL CHARACTERISTICS
ON
PE2-30-20G20R6G-3R0-10-12-SFF**

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS FAIL	QA QC
1	Frequency Range:	20.0 to 26.5 GHz	20.0 to 26.5 GHz See Plot	
2	Gain:	+30 dB Typ.	28.5 dB See Plot	
3	Gain Flatness:	±1.5 dB Max	±0.55 dB See Plot	
4	Noise Figure:	3.0 dB Max	2.90 dB max Pass	
5	Pout @ 1dB Compression:	+10 dBm Min	> +10dBm See Plot	
6	IP3	+20 Typ	+21.2 dBm min	
7	VSWR Input/Output:	2.0:1 Max.	Input 1.83:1 Output 1.66:1 See Plot	
8	Impedance:	50 Ω	PASS	
9	DC Voltage Supply:	+12 to +15VDC @ 150mA Max.	+12 to +15VDC @ 66mA	

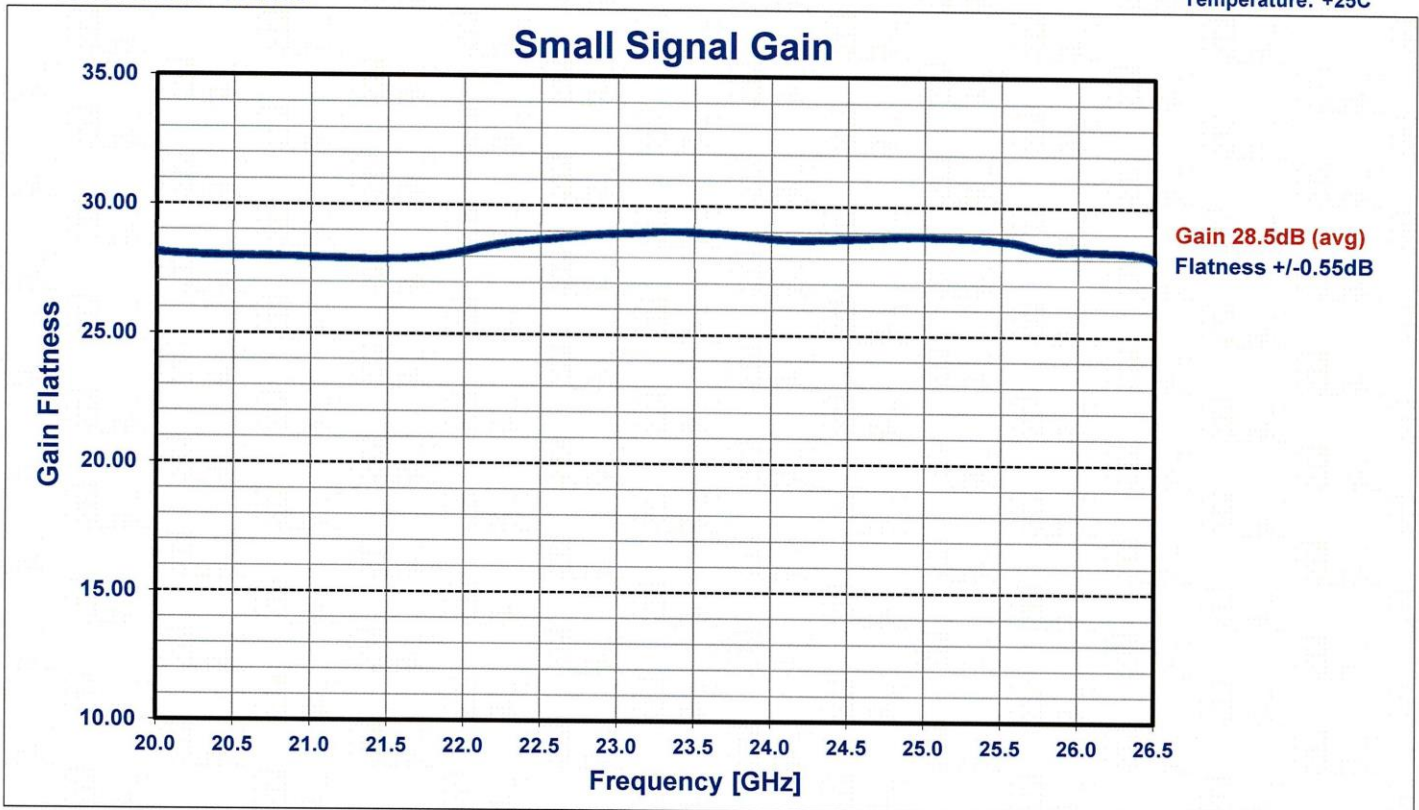


**TYPICAL CHARACTERISTICS
ON
PE2-30-20G20R6G-3R0-10-12-SFF**

Small Signal Gain

Model Number: PE2-30-20G20R6G-3R0-10-12-SFF
Serial Number: PL16215

Temperature: +25C





**TYPICAL CHARACTERISTICS
ON
PE2-30-20G20R6G-3R0-10-12-SFF**

Input / Output VSWR

Model Number: PE2-30-20G20R6G-3R0-10-12-SFF
Serial Number: PL16215

Temperature: +25C

