

DESCRIPTION:

PMI MODEL NUMBER: PEAFS3-14-10M22G-292FF IS A VERY LOW NOISE AMPLIFIER WITH WORKING FREQUENCY RANGE OF 10MHZ TO 22GHZ. THIS AMPLIFIER IS SUPPLIED IN A HOUSING THAT CAN BE USED AS A 2.92MM SURFACE MOUNT OR CONNECTORIZED COMPONENT.

SPECIFICATIONS:

Frequency Range:	10 MHz to 22 GHz
Gain:	+14 dB Typ
Gain Flatness:	±0.8 dB Max
Noise Figure:	3.0 dB Typ. (20MHz to 0.5 GHz)
(See Note)	2.5 dB Typ. (0.5 to 18 GHz)
	3.4 dB Typ. (18 to 22 GHz)
OP1dB:	+14 dBm Typ. (10MHz to 18 GHz)
	+13 dBm Typ. (18 to 22 GHz)
PSat:	+16 dBm Typ. (10 MHz to 18 GHz)
	+15 dBm Typ. (18 to 22 GHz)
OIP3:	+25 dBm Typ. (10MHz to 20 GHz)
	+20 dBm Typ. (20 to 22 GHz)
VSWR Input/Output:	2.0:1 Max.
Reverse Isolation:	19 dB Typ. (10 MHz to 18 GHz)
	20 dB Typ. (18 to 22 GHz)
DC Supply:	+3.3VDC @ 50mA Max.
Connectors In/Out:	2.92mm Female
Finish:	Gold Plated

Note: Noise figure only valid above 20 MHz

ENVIRONMENTAL RATINGS:

Temperature:	-40°C to + 85°C (Operating)
	-40°C to +100°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.	
Specifications will vary over operating temperature.	

FEATURES:

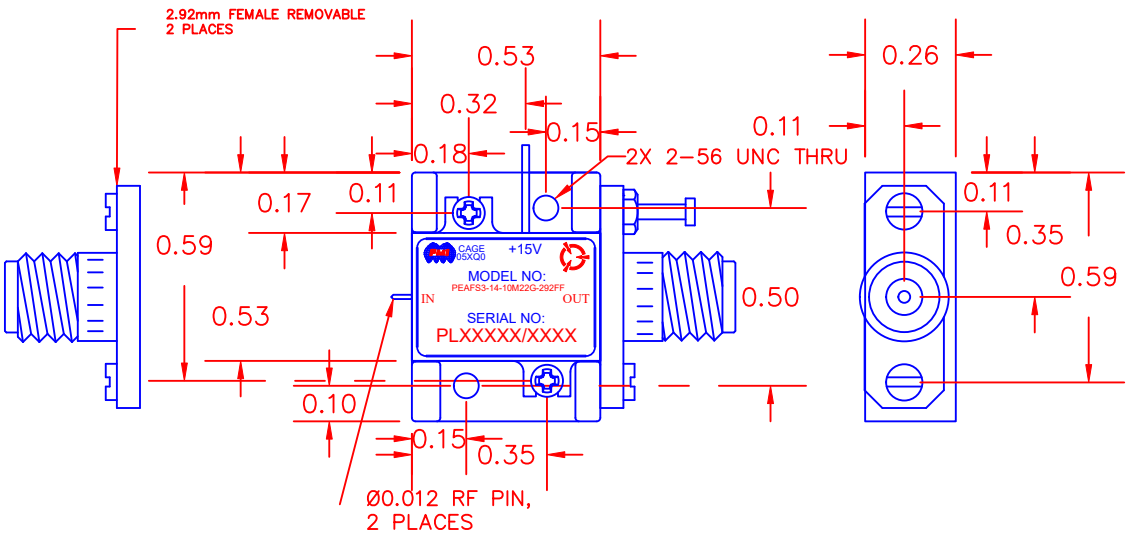
Internal Voltage Regulation
Unconditional Stability

AVAILABLE OPTIONS:

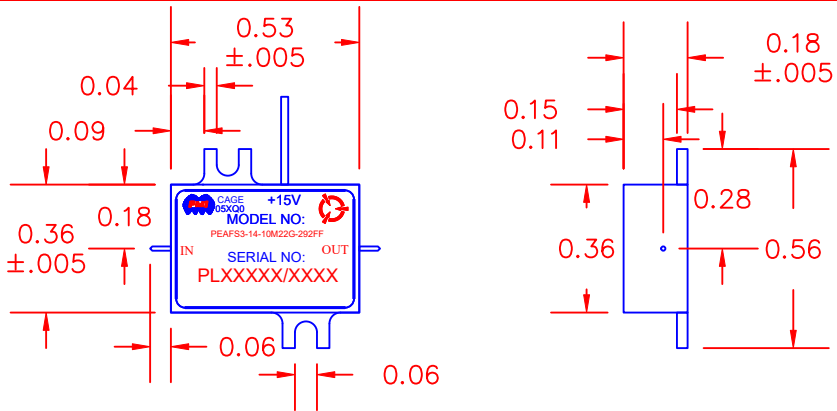
Various Package types
Various Connector types
Temperature Compensation
Gain and Phase Matching
MIL-STD-883 Screening Available

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	02/03/21	
	B1	ECN # 22-0003	1/20/22	
	C1	ECN # 25-0015	1/22/25	

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		01/3/2021	PRODUCT FEATURE		
REDRAWN			PEAFS3-14-10M22G-292FF		
ISSUED			SIZE	FSCM NO.	DWG NO
			A		27041220
			SCALE	N:S	SHEET 1 OF 1

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