

DESCRIPTION:

PMI MODEL NUMBER: PLNA-44-100M18-SFF IS A VERY LOW NOISE AMPLIFIER WITH WORKING FREQUENCY RANGE OF 100MHZ TO 18GHZ. THIS AMPLIFIER IS SUPPLIED IN A HOUSING THAT CAN BE USED AS A SURFACE MOUNT OR CONNECTORIZED COMPONENT.

SPECIFICATIONS:

Frequency Range: 100 MHz to 18 GHz

Gain: +38 dB Min.

Gain Flatness: ± 2.5 dB Typ.

Noise Figure: 3.5 dB Typ.

OP1dB: +12 dBm Min.

PSat: +13 dBm Typ.

Input Power: +20 dBm Max.

VSWR Input: 2.0:1 Max.

VSWR Output: 2.1:1 Max.

Reverse Isolation: 45 dB Min.

DC Supply: +5 VDC @ 170 mA Max.

Connectors In/Out: SMA Female

Finish: Gold Plated

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.

SPECIFICATIONS:

2nd Harmonic:
(-30dBm Input Power) 25 dBc Typ.
(-20dBm Input Power) 22 dBc Typ.
(0 dBm (Input Power) 18 dBc Typ.
(At P1dB) 16 dBc Typ.
(+15dBm (Input Power) 12 dBc Typ.

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

ALL DIMENSIONS ARE IN INCHES

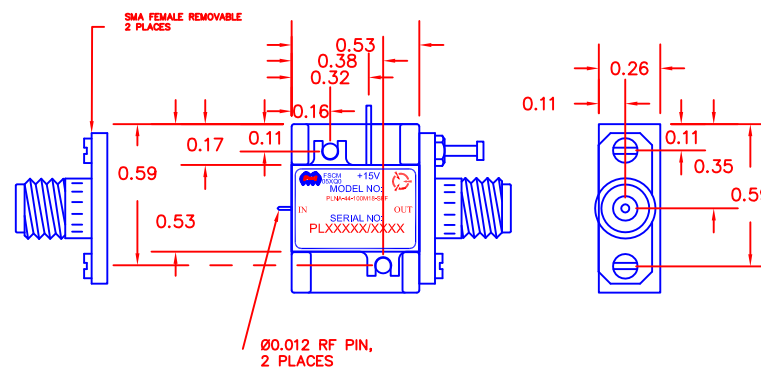
TOLERANCES:

X.XX ± 0.020

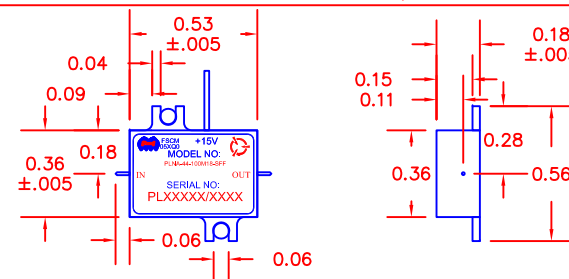
X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/24/21	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN		08/24/2021		PRODUCT FEATURE	
REDRAWN		ALC		PLNA-44-100M18-SFF	
ISSUED					
SCALE		N:S		PRELIMINARY	
				SHEET 1 OF 2	
				REV. A1	