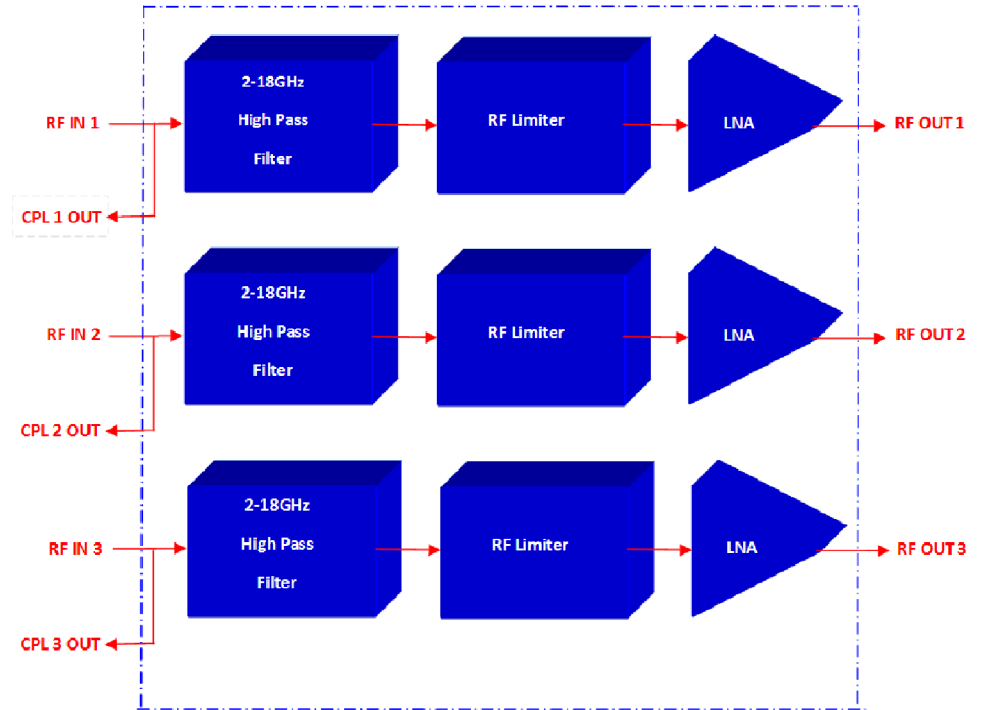


## DESCRIPTION

MODEL NUMBER PIA-FLA-2G18G-3CH-CPL IS AN INTEGRATED ASSEMBLY CONSISTING OF THREE IDENTICAL CHANNELS. EACH CHANNEL FEATURES AN INPUT 2-18 GHz HIGH PASS FILTER, LIMITER AND LOW NOISE AMPLIFIER ALONG WITH A COUPLED OUTPUT OF EACH INPUT.. THE GAIN IS 23 dB WITH A NOISE FIGURE OF 6.75 dB, OP1DB OF +15 dBm. THIS MODULE IS DESIGNED TO SURVIVE INPUT POWER LEVELS OF 1 WATT CW, 10 WATTS PEAK WITH 1 us PULSE WIDTH AND 1 KHz PRF.

## SPECIFICATIONS

- FREQUENCY: \_\_\_\_\_ 2.0 GHz TO 18.0 GHz
- GAIN: \_\_\_\_\_ 23 dB NOMINAL
- GAIN FLATNESS: \_\_\_\_\_ ±1.5 dB TYPICAL
- NOISE FIGURE: \_\_\_\_\_ 6.75 dB MAXIMUM
- OP 1 dB: \_\_\_\_\_ +15 dBm MINIMUM
- OIP3: \_\_\_\_\_ +20 dBm MINIMUM
- VSWR IN/OUT: \_\_\_\_\_ 2.0:1 MAXIMUM
- INPUT POWER: \_\_\_\_\_ 1 WATT CW, 10 WATTS PEAK  
(1 us PW, 1 kHz PRF)
- CHANNEL - CHANNEL ISOLATION: \_\_\_\_\_ 60 dBc MINIMUM
- COUPLED OUTPUT PORTS: \_\_\_\_\_ 16dB TYPICAL (NO DIRECTIVITY)
- FILTER REJECTION: \_\_\_\_\_ -15 dB @ 1700 MHz TYPICAL  
-35 dB @ 1500 MHz TYPICAL  
-80 dB @ 870 MHz TYPICAL
- CONNECTORS: \_\_\_\_\_ SMA(F)
- DC SUPPLY: \_\_\_\_\_ 500 mA @ +12 TO +15 VDC NOMINAL
- FINISH: \_\_\_\_\_ PAINTED BLUE  
(MOUNTING SURFACE UNPAINTED)



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	5/11/15	

## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

**PMI CONFIDENTIAL AND PROPRIETARY**

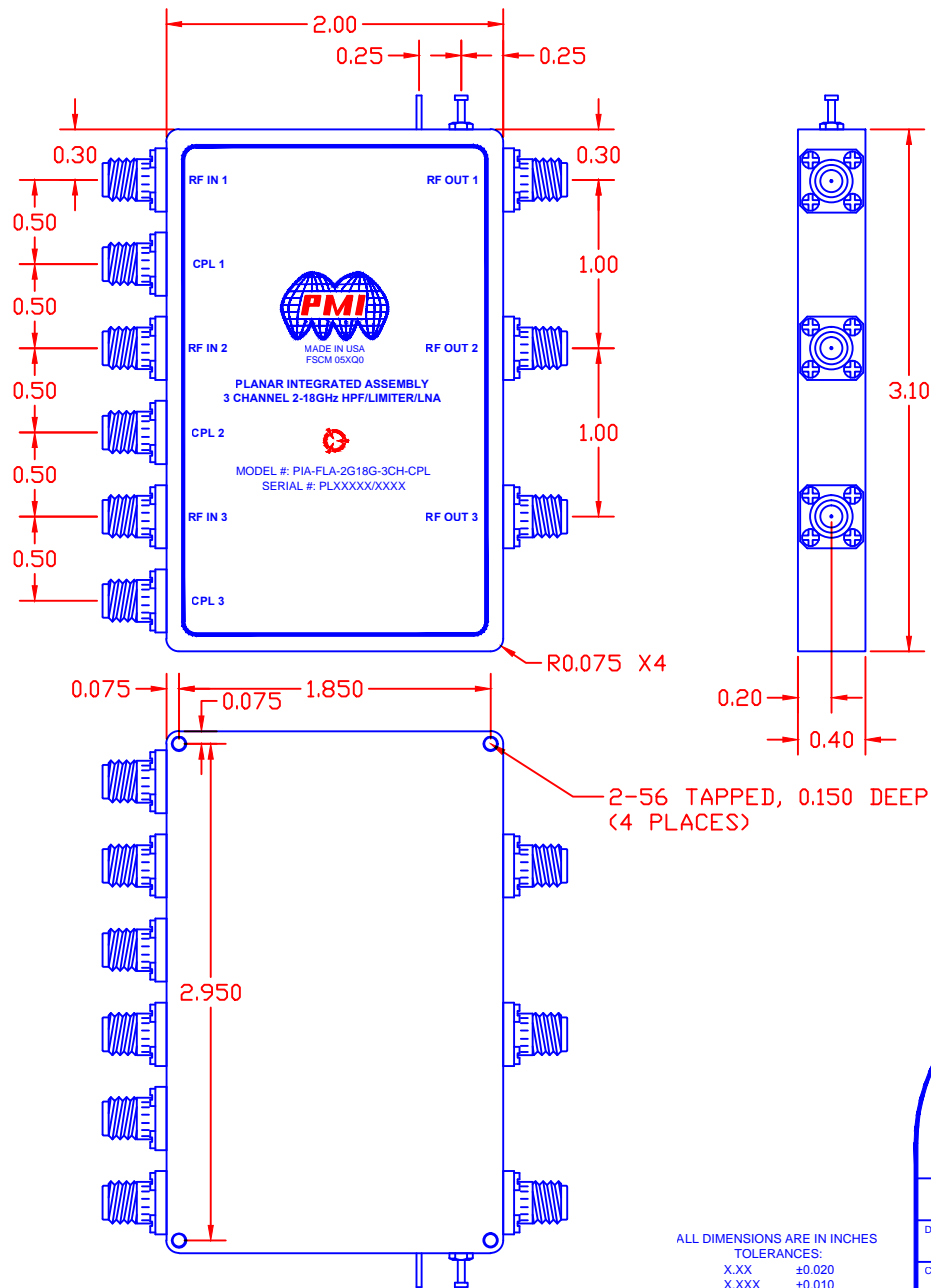
## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: (301)-662-5019, FAX: (301)-662-1731  
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>MEB</i>		5/11/15	PRODUCT FEATURE PIA-FLA-2G18G-3CH-CPL 2 GHz TO 18 GHz INTEGRATED ASSEMBLY			-
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S		SHEET 1 OF 2	

# MECHANICAL OUTLINE



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

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED					REV. -
SCALE N:S			SHEET 2 OF 2		