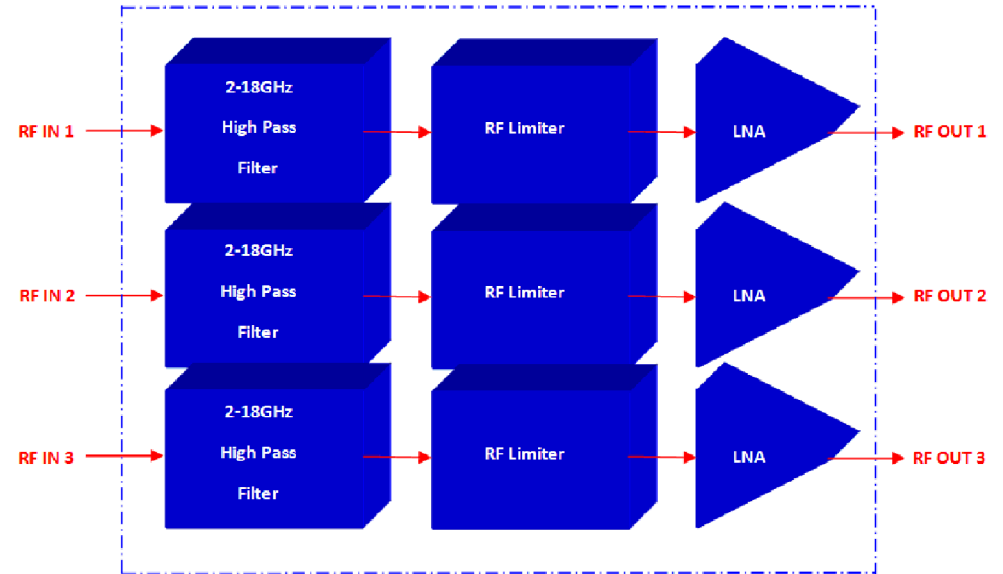


DESCRIPTION

MODEL NUMBER PIA-FLA-2G18G-3CH 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. THE GAIN IS 23 dB WITH A NOISE FIGURE OF 5 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: _____ 5.0 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
- 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

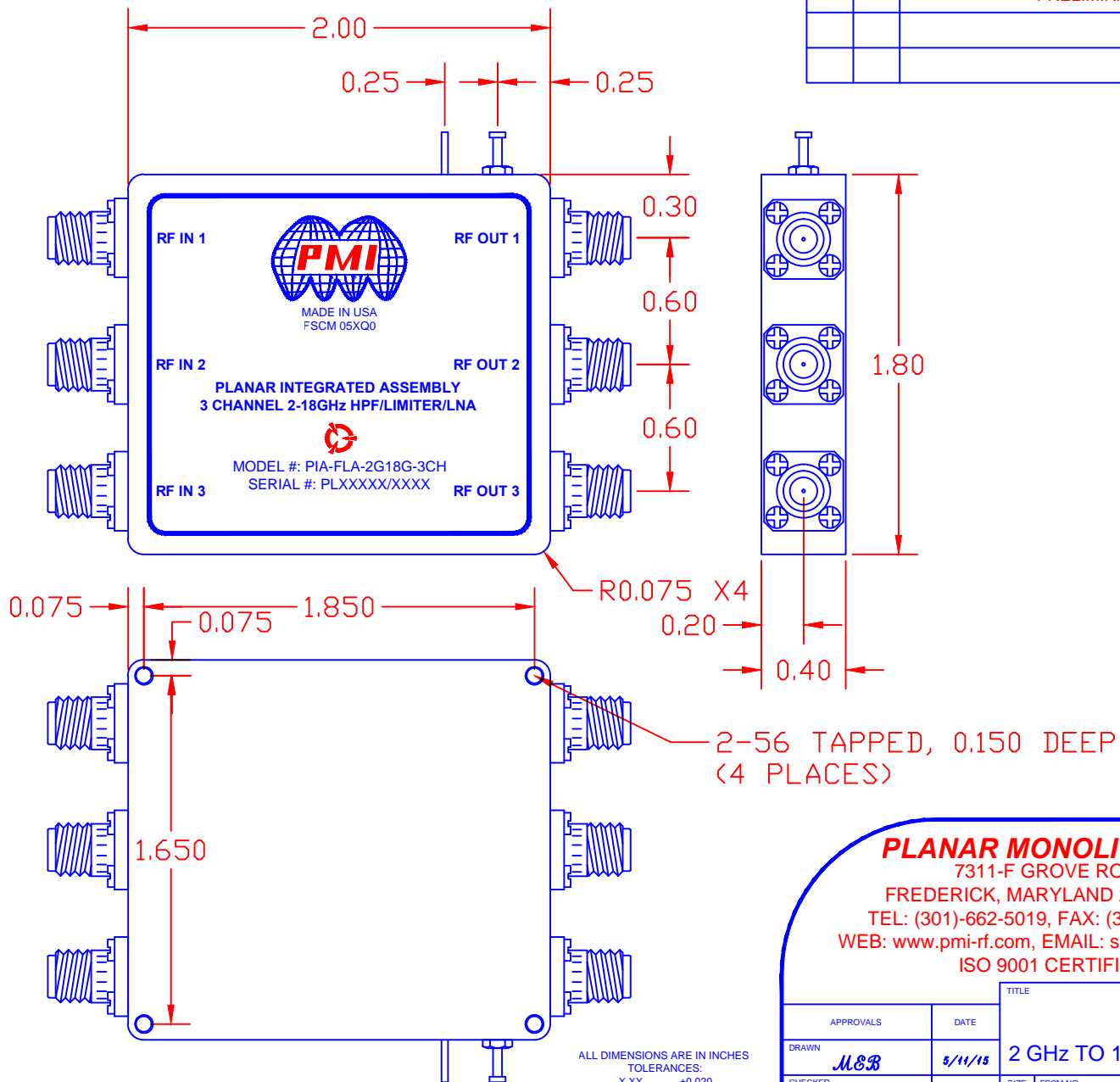
PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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ISO 9001 CERTIFIED



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

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