

## DESCRIPTION:

PMI model number PIA-BTFL-GPO-2CH Rev.B is an dual channel integrated assembly that consists of a Bias-Tee, High Pass Filter, and Limiter. This compact module is supplied with field replaceable GPO connectors.

## SPECIFICATIONS:

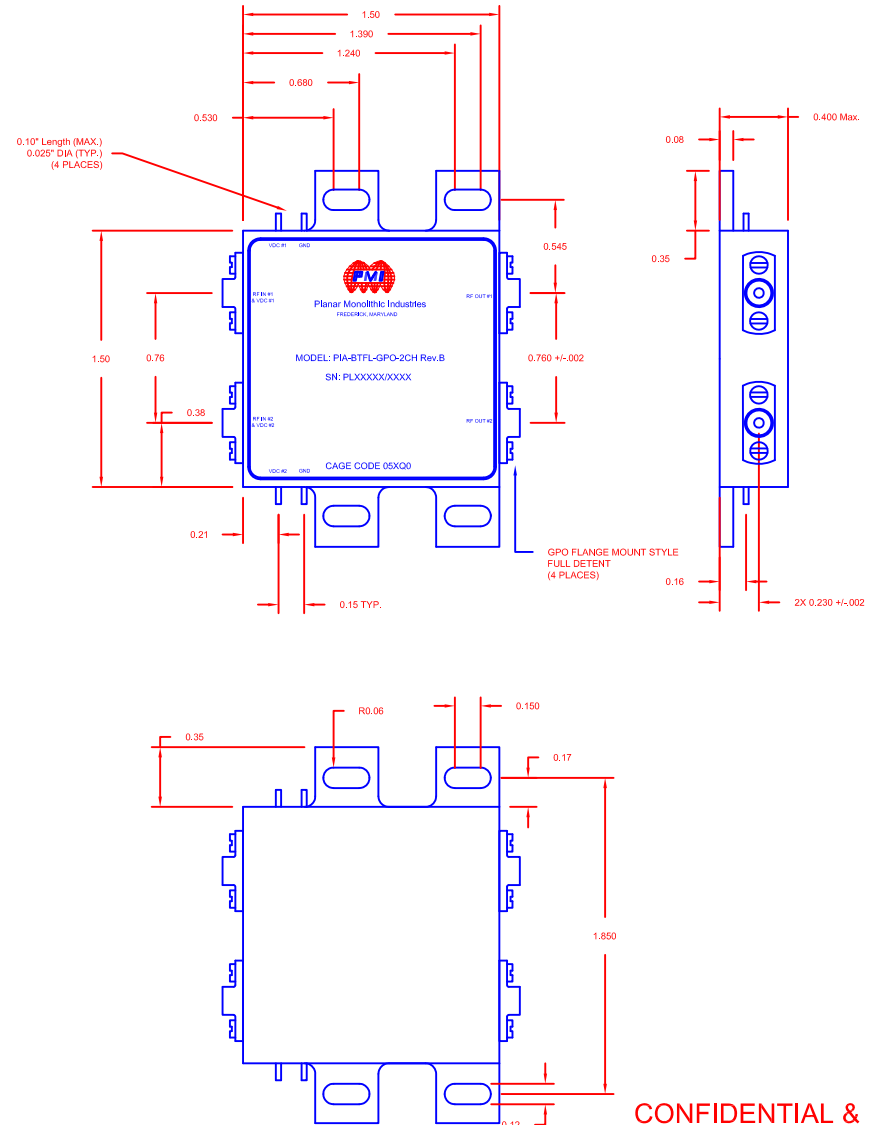
- Passband Lower Limit: \_\_\_\_\_ 2.0GHz Typical
- Passband Upper Limit: \_\_\_\_\_ 19.0GHz Min.
- -3dB Cut-off: \_\_\_\_\_ 1.80GHz Typ. (3dBc from IL @ 2GHz)
- Insertion Loss: \_\_\_\_\_ 3.0dB Typ, 3.5dB Max. (2 to 19GHz)
- Rejection: \_\_\_\_\_ 10dBc Min. @ 1.7GHz  
Insertion Loss @ 2GHz Reference 30dBc Min. @ DC to 1.5GHz
- Passband VSWR In/Out: \_\_\_\_\_ 2.0:1 Max. (3 to 19GHz)  
2.2:1 Max. (2 to 3GHz)
- Bias Rise/Fall Time: \_\_\_\_\_ 50ns Max.  
(90% to 10%) +12 to -12V or -12 to +12V pules; tr=1ns; Rload=430 Ohms)
- Limiting Threshold: \_\_\_\_\_ +8dBm Min.
- Flat Leakage: \_\_\_\_\_ +20dBm CW Max.  
+23dBm Pulsed Max.
- Pulse Recovery Time: \_\_\_\_\_ 50ns Max. (To within 1dB of IL)
- Cross Channel Isolation: \_\_\_\_\_ -73dB Max.
- 2nd Order Input Intercept Point: \_\_\_\_\_ +30dBm Min. (-15dBm Input Tones)
- 3rd Order Input Intercept Point: \_\_\_\_\_ +17dBm Min. (-15dBm Input Tones)
- Power Handling: \_\_\_\_\_ 1W CW Max.  
6W, (20% Duty Cycle)
- Bias Current: \_\_\_\_\_ +/-30mA Operational (+/-80mA Max.)
- Bias Voltage: \_\_\_\_\_ -12 to +12VDC
- Connectors: \_\_\_\_\_ GPO - Full Detent
- Size: \_\_\_\_\_ 1.5" (L) x 1.5" (W) x 0.4" (H)
- Finish: \_\_\_\_\_ MIL-SPEC Epoxy Paint - GRAY  
(Mounting surface to be free of paint)
- Sealing: \_\_\_\_\_ HERMETIC
- Weight: \_\_\_\_\_ 3oz Max.

## ENVIRONMENTAL RATINGS:

- TEMPERATURE: \_\_\_\_\_ -27°C TO +95°C (OPERATING BASE PLATE)  
-65°C TO +125°C (STORAGE)  
+25°C (SPEC)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202F, METHOD 107
- SALT FOG \_\_\_\_\_ MIL-STD-202F, METHOD 101D-EST COND. B
- THERMAL SHOCK \_\_\_\_\_ MIL-STD-202F, METHOD 107D COND. A

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Original Release	5/5/11	
	B	Updated Specs and Mechanical	8/24/11	



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PART NO.		APPROVALS		DATE	TITLE	
		DRAWN		5/5/11	PRODUCT FEATURE	
		CHECKED			MODEL: PIA-BTFL-GPO-2CH	
		ISSUED			SIZE	FSCM NO.
					A	05XQ0
					DWG NO.	27014748
					REV.	B
					SCALE	N/A
					SHEET	1 OF 1



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