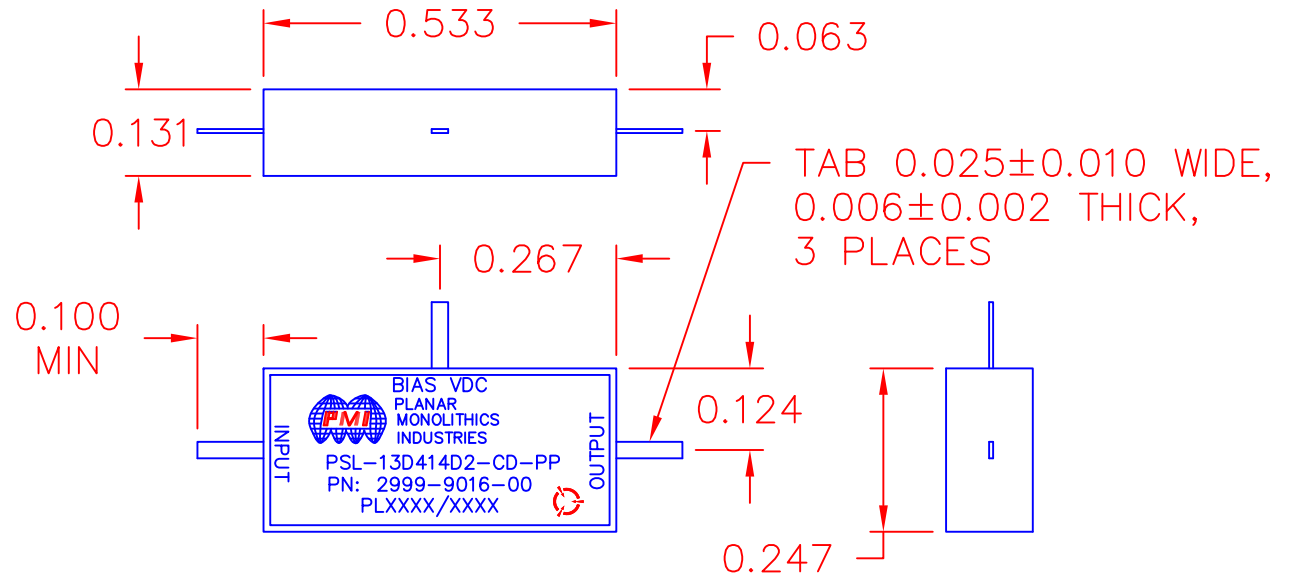


DESCRIPTION

PMI MODEL PSL-13D414D2-CD-PP IS A SWITCH LIMITER WORKING IN THE 13.4 GHz TO 14.2 GHz FREQUENCY RANGE. A +10 mA BIAS WILL TURN THE SWITCH OFF, WHILE A -10 mA BIAS WILL PUT THE SWITCH INTO THE INSERTION LOSS STATE. THE LIMITER WILL HANDLE 20 W AT A 2 μ S PULSE WIDTH.

SPECIFICATIONS

- FREQUENCY RANGE: 13.4 GHz TO 14.2 GHz
- MAX PEAK POWER: 75 W FOR 300 nS PULSE WIDTH (AT SWITCH)
20 W FOR 2 μ S PULSE WIDTH (AT LIMITER)
- MAX AVERAGE POWER: 10 W (AT SWITCH)
1 W (AT LIMITER)
- LEAKAGE POWER: +20 dBm MAX
- SWITCHING BIAS CONDITION: +10 mA (HIGH LOSS)
-10 mA (LOW LOSS)
- INSERTION LOSS: 1.3 dB MAX
- RETURN LOSS: -15 dB MAX
(-10 mA CONDITION)
- RISE TIME: 20 nS MAX
(INPUT CW POWER < 1dB COMPRESSION POINT)
- FALL TIME: 20 nS MAX
(INPUT CW POWER < 1dB COMPRESSION POINT)
- BLANKING ISOLATION: 40 dB MIN
- RECOVERY TIME: 100 nS MAX
(RF POWER HIGH TO LOW WITHIN 1 dB)
- SEALING: HERMETIC



ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +100°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	7/15/10	

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 9001:2000 CERTIFIED

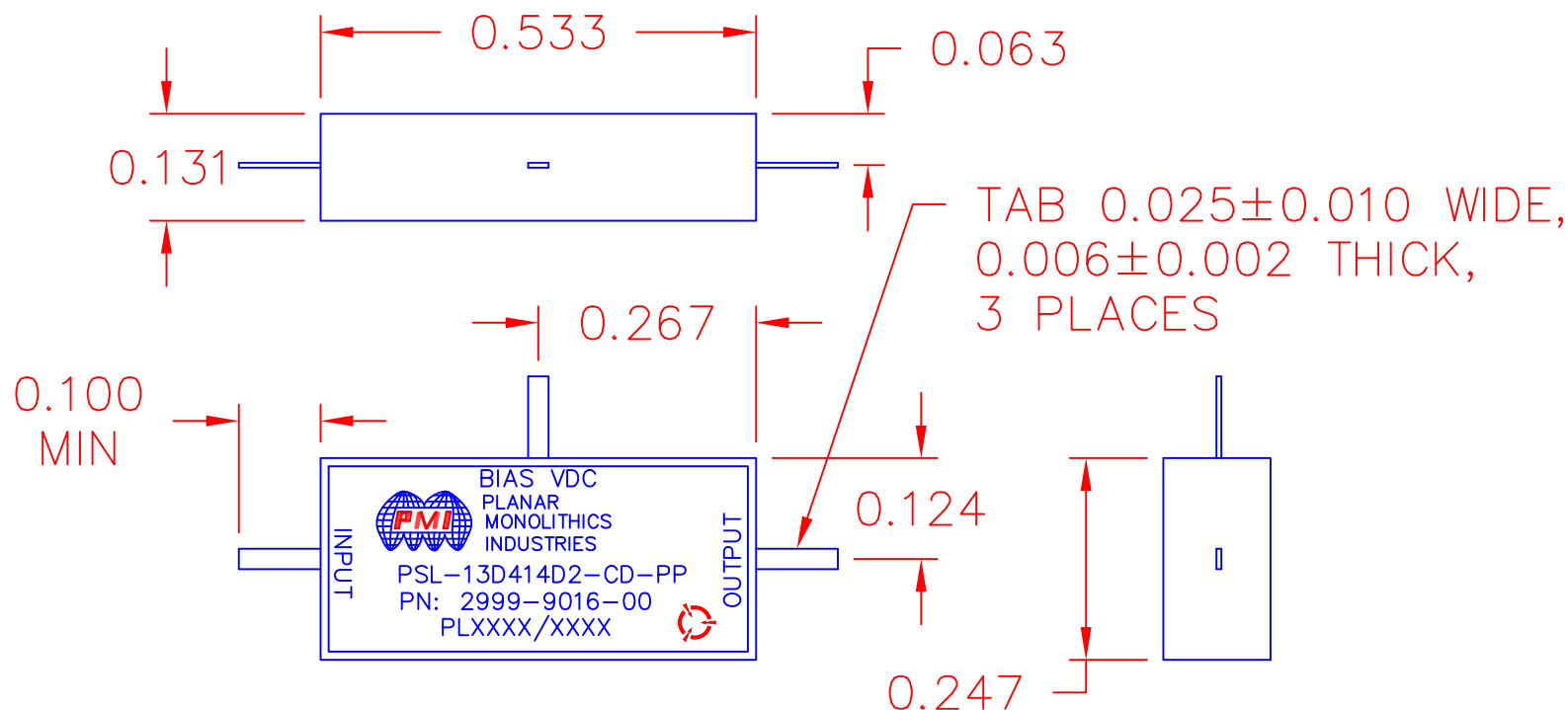


APPROVALS		DATE		TITLE	
DRAWN		7/15/10		OUTLINE DRAWING	
CHECKED				PSL-13D414D2-CD-PP	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27012941	A		
SCALE N: S		SHEET		1 OF 2	

DESCRIPTION

PMI MODEL PSL-13D414D2-CD-PP IS A SWITCH LIMITER WORKING IN THE 13.4 GHz TO 14.2 GHz FREQUENCY RANGE. A +10 mA BIAS WILL TURN THE SWITCH OFF, WHILE A -10 mA BIAS WILL PUT THE SWITCH INTO THE INSERTION LOSS STATE. THE LIMITER WILL HANDLE 20 W AT A 2 μ S PULSE WIDTH.

MECHANICAL OUTLINE



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	7/15/10	

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 9001:2000 CERTIFIED



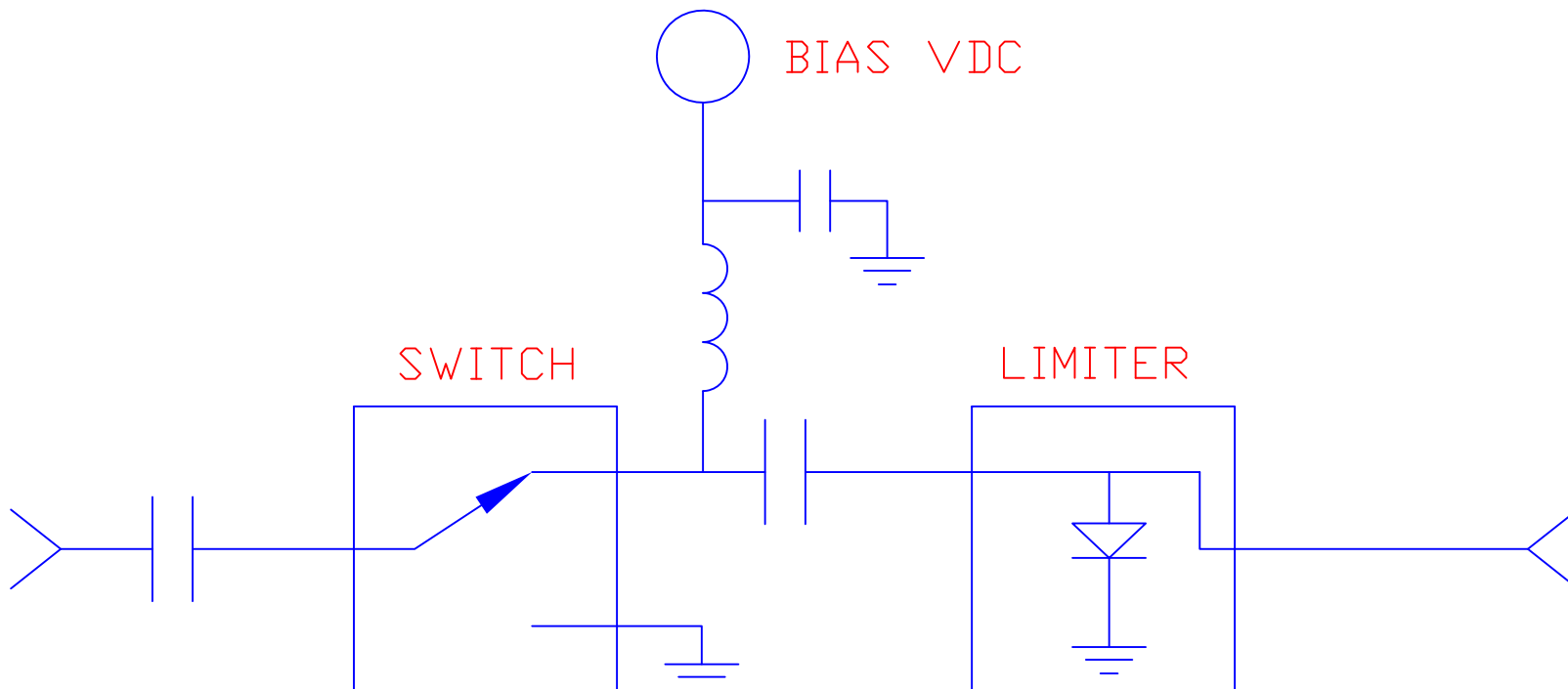
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

APPROVALS		DATE		TITLE	
DRAWN		DATE		OUTLINE DRAWING	
CHECKED		DATE		PSL-13D414D2-CD-PP	
ISSUED		DATE			
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27012941	
SCALE		N: S		SHEET	
				2 OF 3	

DESCRIPTION

PMI MODEL PSL-13D414D2-CD-PP IS A SWITCH LIMITER WORKING IN THE 13.4 GHz TO 14.2 GHz FREQUENCY RANGE. A +10 mA BIAS WILL TURN THE SWITCH OFF, WHILE A -10 mA BIAS WILL PUT THE SWITCH INTO THE INSERTION LOSS STATE. THE LIMITER WILL HANDLE 20 W AT A 2 μ S PULSE WIDTH.

FUNCTIONAL BLOCK DIAGRAM



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	7/15/10	

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 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		DPD		OUTLINE DRAWING			
CHECKED		7/15/10		PSL-13D414D2-CD-PP			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27012941	A
				SCALE N: S			SHEET 3 OF 3