

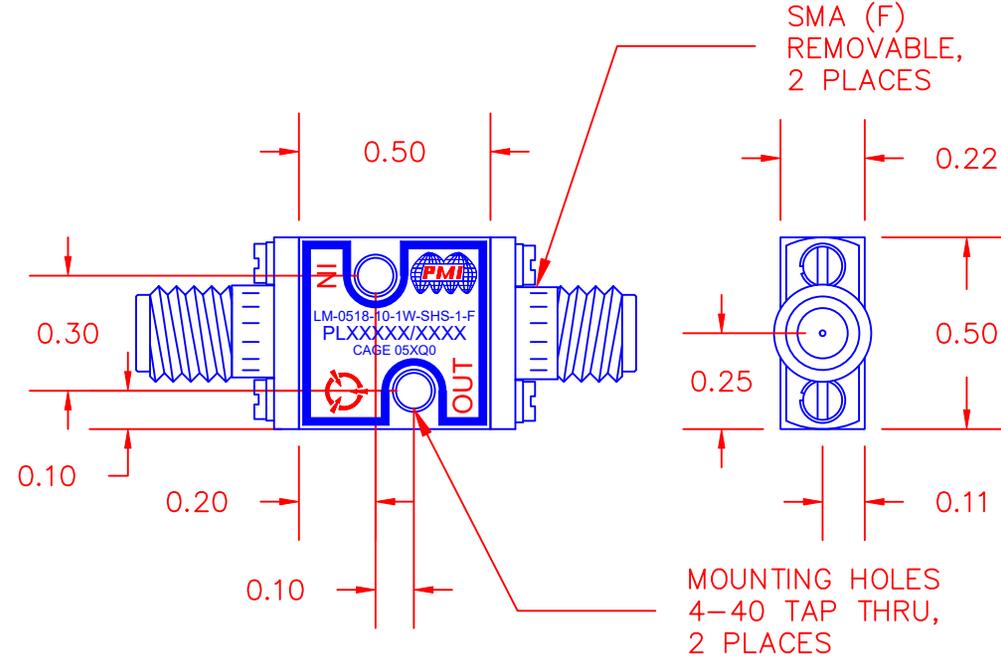
# DESCRIPTION

PMI MODEL: LM-0518-10-1W-SHS-1-F IS A HIGH SPEED, HIGH POWER HARD DIODE-LIMITER. IT OPERATES OVER THE FREQUENCY RANGE OF 0.5 TO 18GHz

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	07/31/12	
	B1	UPDATED TITLE BLOCK	03/17/13	
	B2	ECN # 13-0157	09/17/13	
	B3	ECN # 24-0045	02/23/24	

# SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18 GHz
- INSERTION LOSS  
@-20dBm INPUT: 2.0dB MAX, 1.5dB TYP
- VSWR @-20dBm INPUT: 2.0:1 MAX, 1.5:1 TYP
- LEAKAGE @ 1 WATT  
CW INPUT: +14dBm MAX, +10dBm TYP
- SPEED: 10ns
- INPUT POWER: 1 WATT CW, 100 WATTS PEAK, 1us PULSE, 0.1% DUTY CYCLE DERATED TO 20% AT 125°C
- LIMITING THRESHOLD: +5dBm TYP
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED BLUE
- SIZE: 0.5" X 0.5" X 0.22"



PMI CONFIDENTIAL AND PROPRIETARY

# ENVIRONMENTAL RATINGS

- TEMPERATURE: -54°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
- 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  
WEIGHT: X.XX oz.

# 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN sfk		07/31/12	PRODUCT FEATURE LM-0518-10-1W-SHS-1-F		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27010982
ISSUED					REV. B3
			SCALE N:S	SHEET 1 OF 1	