

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER LM-0518-10-1W-SHS-2-M IS A HIGH POWER LIMITER THAT WORKS FROM 500 MHZ TO 18 GHZ THAT HANDLES 100 WATTS PEAK POWER WITH A PULSE WIDTH OF 1 us.

SPECIFICATIONS:

- FREQUENCY:..... 500 Mhz to 18 GHZ
- INSERTION LOSS
@-20 dBm.....2.0 dB (Max) 1.5 dB (Typ)
- VSWR@-20 dBm.....2.0:1 (MAX) 1.5:1 (Typ)
- LEAKAGE @ 1 WATT
CW IMMUNE.....+14 dBm (Max) +10 dBm (Typ)
- PEAK POWER:..... 100 WATTS
- PULSE WIDTH:..... 1 us
- DUTY CYCLE: 0.1%
- CONNECTOR (INPUT)..... SMA MALE
- CONNECTOR (OUTPUT)..... SMA FEMALE
- SIZE:..... 1.00 X 1.00 X .400 (H)
- WEIGHT:..... 1.5 OZ. MAXIMUM
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750,
TYPE I OVER EPOXY POLIMIDE PRIMER
IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

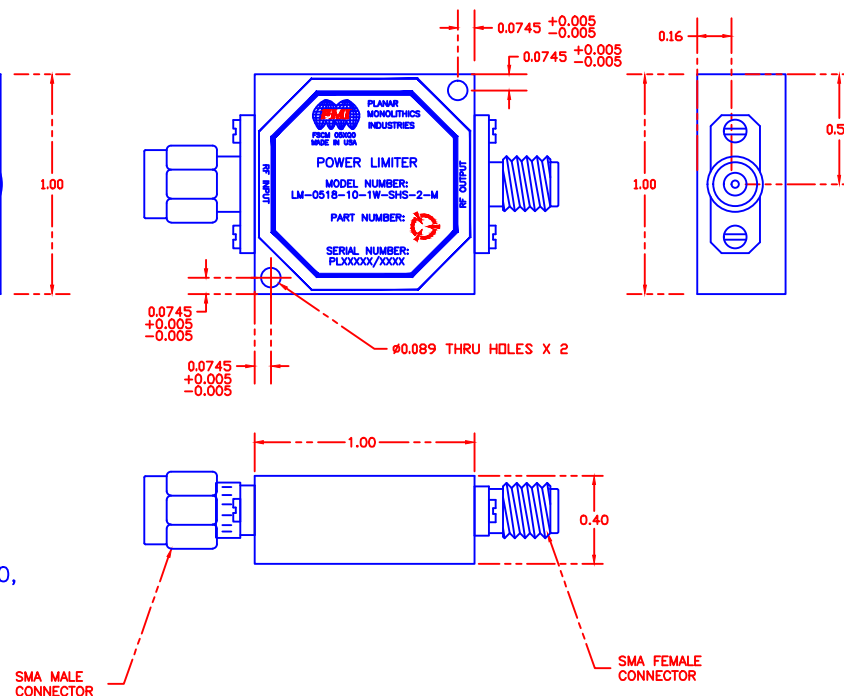
ENVIRONMENTAL RATINGS

- TEMPERATURE:..... -54°C TO +85°C (OPERATING)
-65°C TO +100°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
SPECIFICATIONS MAY VARY OVER TEMPERATURE

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/28/09	
	B1	Updated Mechanical Layout	12/16/09	
	C1	UPDATED TITLE BLOCK	03/19/13	
	C2	ECN # 13-0050	05/27/13	
	D1	ECN # 14-0093	6/26/14	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		PRODUCT FEATURE		REV.
DRAWN	JFK		10/28/2010			LM-0518-10-1W-SHS-2-M		
CHECKED				SIZE	FSCM NO.	DWG NO.		
ISSUED				A	05XQ0	27013801-C		D1
				SCALE	N:S	SHEET	1 OF 3	

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FUNCTIONAL BLOCK DIAGRAM



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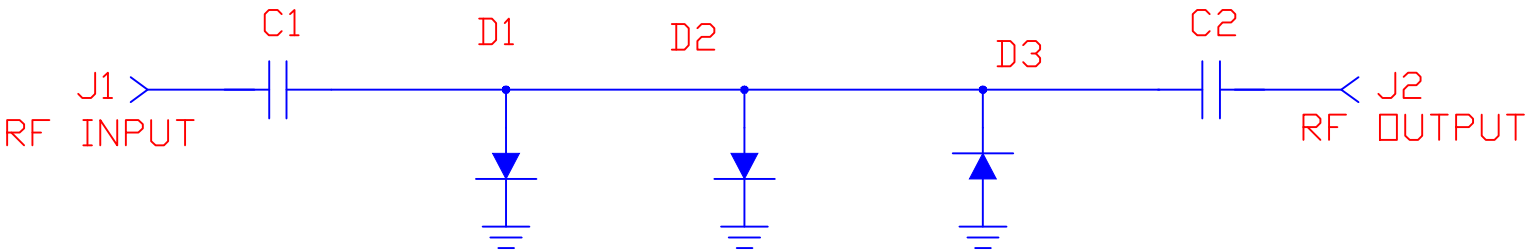
APPROVALS		DATE	TITLE				REV.
DRAWN			FUNCTIONAL BLOCK DIAGRAM				
CHECKED			LM-0518-10-1W-SHS-2-M				
ISSUED			500MHZ TO 18GHZ HIGH POWER LIMITER				
			SIZE	FSCM NO.	DWG NO.		
			A	05XQ0	27013801-C		D1
			SCALE	N:S		SHEET	2 OF 3

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FUNCTIONAL SCHEMATIC



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APPROVALS		DATE	TITLE			REV.
DRAWN			FUCNTIONAL SCHEMATIC			
CHECKED			LM-0518-10-1W-SHS-2-M			
ISSUED			500 MHZ TO 18GHZ HIGH POWER LIMITER			
			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	27013801-C	D1
			SCALE	N:S	SHEET	3 OF 3