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 0.400 (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.
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PEAK POWER WITH A PULSE WIDTH OF 1 US.

FUNCTIONAL BLOCK DIAGRAM

RF INPUT

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LIMITER CIRCUITRY

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RF OUTPUT

PMI CONFIDENTIAL AND PROPRIETARY

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 CERTIFIED

FUNCTIONAL BLOCK DIAGRAM

LM-0518-10-1W-SHS-2-M
500 MHZ TO 18 GHZ HIGH POWER LIMITER

DRAWN

CHECKED

ISSUED

APPROVED

SCALE

SHRINT 2 OF 3
DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-0518-10-1W-SHS-2-M IS A HIGH POWER LIMITER THAT
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PEAK POWER WITH A PULSE WIDTH OF 1 us.

FUNCTIONAL SCHEMATIC

RF INPUT

C1

D1

D2

D3

C2

RF OUTPUT

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APPROVALS
DRAWN
CHECKED
ISSUED
SCALE
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A

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D1

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N:S

3 OF 3