DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-0518-10-1W-SHS-2-FM 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:**
  - (1.0 to 2.0 GHz): 1.4:1 (MAX)
  - @ -20 dBm: 2.0:1 (MAX) 1.5:1 (TYP)
- **LEAKAGE:** +10 dBm (MAX)
- **PEAK POWER:** 100 WATTS
- **PULSE WIDTH:** 1 us
- **AVERAGE INPUT POWER:** 12 WATTS (MAX)
- **DUTY CYCLE:** 0.1%
- **CONNECTOR (INPUT):** SMA FEMALE
- **CONNECTOR (OUTPUT):** SMA MALE
- **SIZE:** 1.00 X 1.00 X .400 (H)
- **WEIGHT:** 1.5 OZ. MAXIMUM
- **FINISH:** PAINTED BLUE

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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FUNCTIONAL BLOCK DIAGRAM

RF INPUT  →  LIMITER CIRCUITRY  ←  RF OUTPUT

PMI CONFIDENTIAL AND PROPRIETARY
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FUNCTIONAL SCHEMATIC

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RF INPUT

J1

C1

D1

D2

D3

C2

RF OUTPUT

J2

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PMI CONFIDENTIAL AND PROPRIETARY

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