DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
LM-0518-10-1W-SHS-2-FM-OPT12 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
  (OPTIMIZED FOR 1.0 TO 2.0 GHz)
• INSERTION LOSS @-20 dBm 2.0 dB (MAX) 1.5 dB (TYP)
@-20 dBm (1.0 to 2.0 GHz) 1.0 dB (MAX)
• VSWR (1.0 to 2.0 GHz) 1.4:1 (MAX)
• VSWR@-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

J1 — C1 — D1 — D2 — D3 — C2 — J2
RF INPUT — — — — — RF OUTPUT