



**TYPICAL CHARACTERISTICS
ON
LM-0518-10-1W-SHS-2-F**



**DESIGNED BY:
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**REPORTED BY:
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TYPICAL CHARACTERISTICS ON LM-0518-10-1W-SHS-2-F

DESCRIPTION:
 PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER
 LM-0518-10-1W-SHS-2-F IS A HIGH POWER LIMITER THAT
 OPERATES 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 FEMALE
- CONNECTOR (OUTPUT): SMA FEMALE
- SIZE: 1.00 X 1.00 X 0.40 (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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/25/17	

PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED

APPROVALS		DATE		TITLE	
DESIGN	J. ALAYON		2/16/15	PRODUCT FEATURE	
REWORK	JSPIL		04/26/17	LM-0518-10-1W-SHS-2-F	
ISSUED		SIZE	FSOM NO.	DWG NO.	REV.
		A	05XQ0	270.32501	A1
		SCALE	N:S	SHEET	1 OF 1

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

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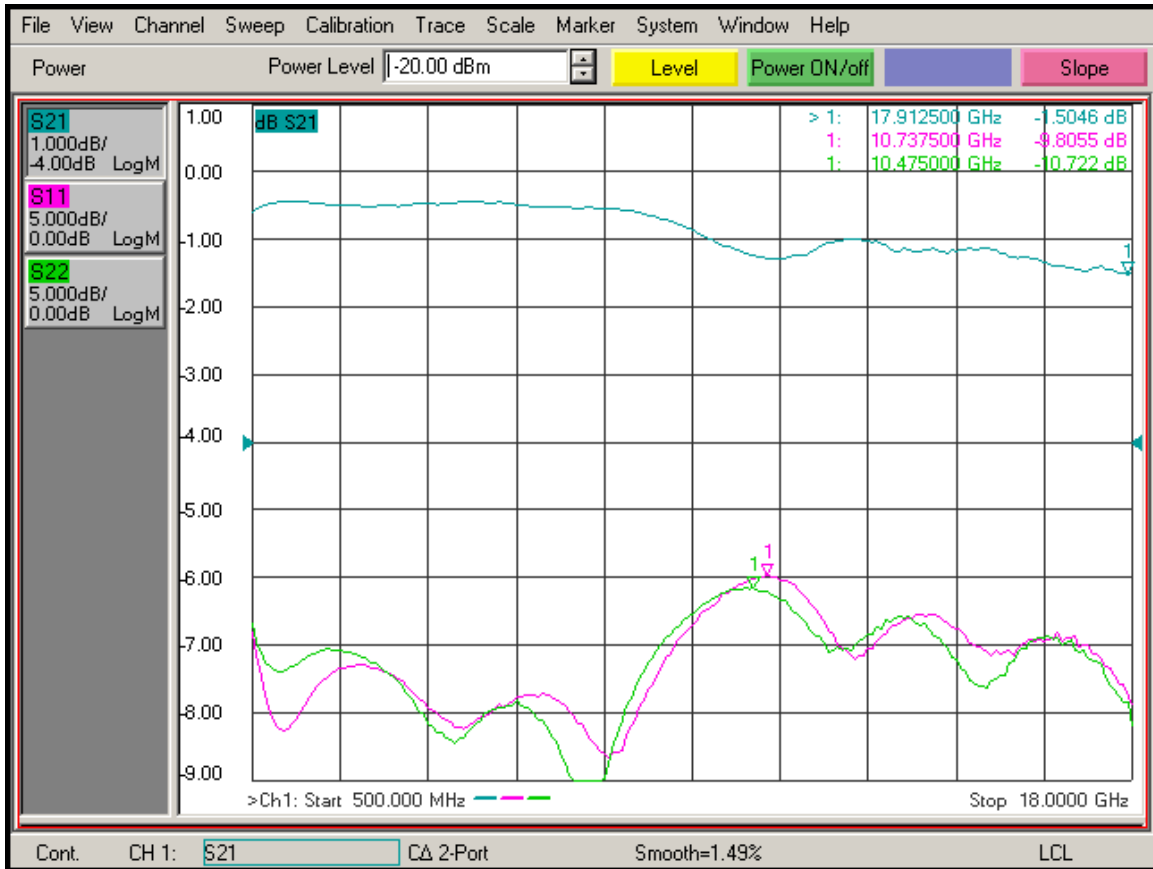
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range:	500 MHz to 18 GHz	500 MHz to 18 GHz	
2	Insertion Loss @ -20dBm:	2.0dB Max.	1.5dB	
3	Peak Power:	100 Watts, 1 uSec. Pulse, 0.1% Duty Cycle	Pass by Design	
4	Leakage @ 1 Watt CW:	+14dBm Max.	+12dBm Max.	
5	VSWR @ -20dBm:	2.0:1 Max.	1.96:1	
6	Recovery Time:	50ns Typ.	40ns	

**Insertion Loss and Return Loss
@ -20dB**

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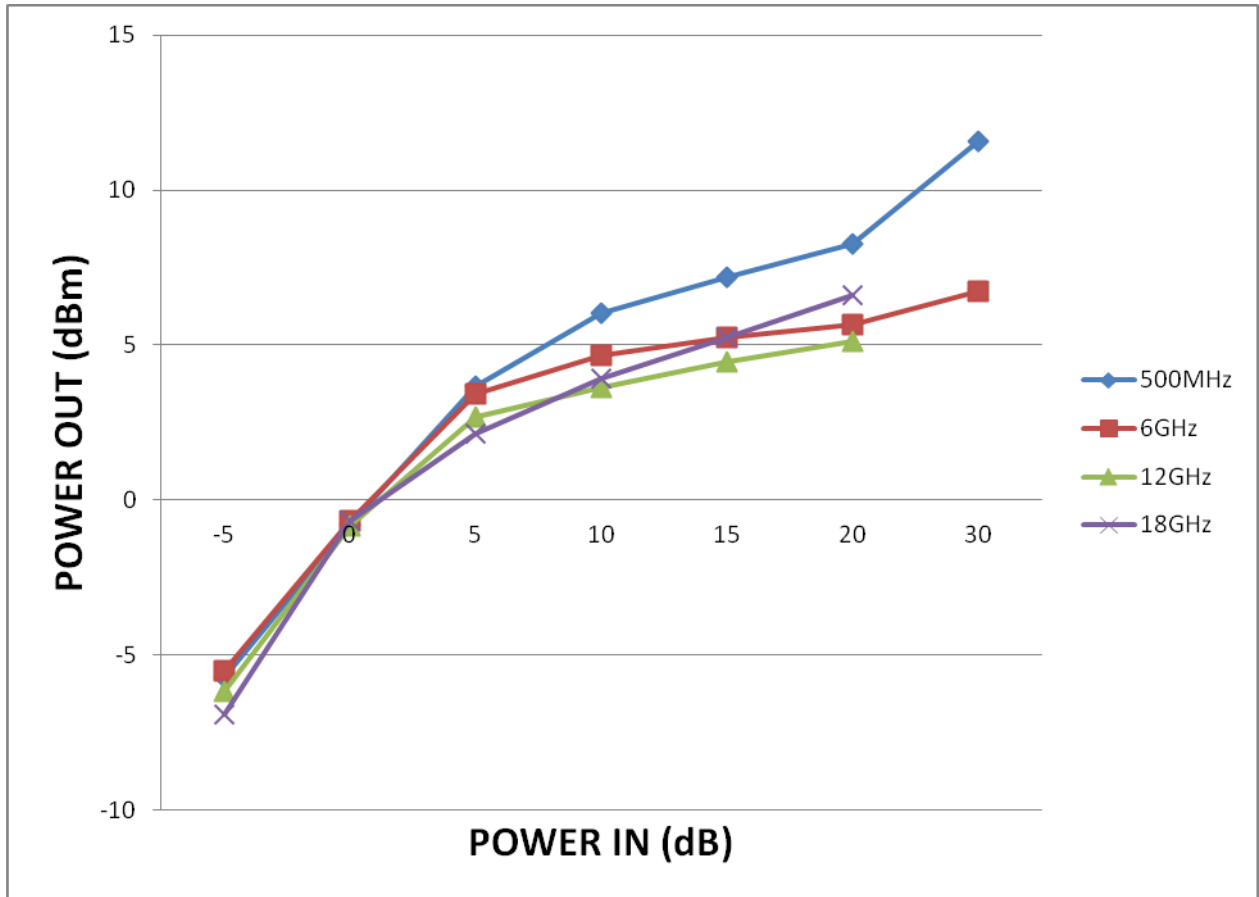
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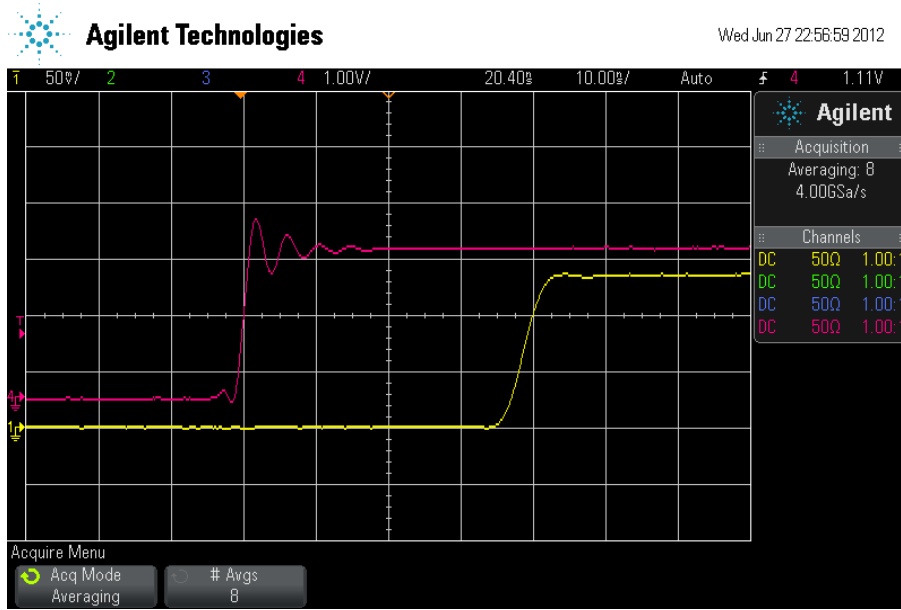


7311-F Grove Road, Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
email: Recovery@pmi.com

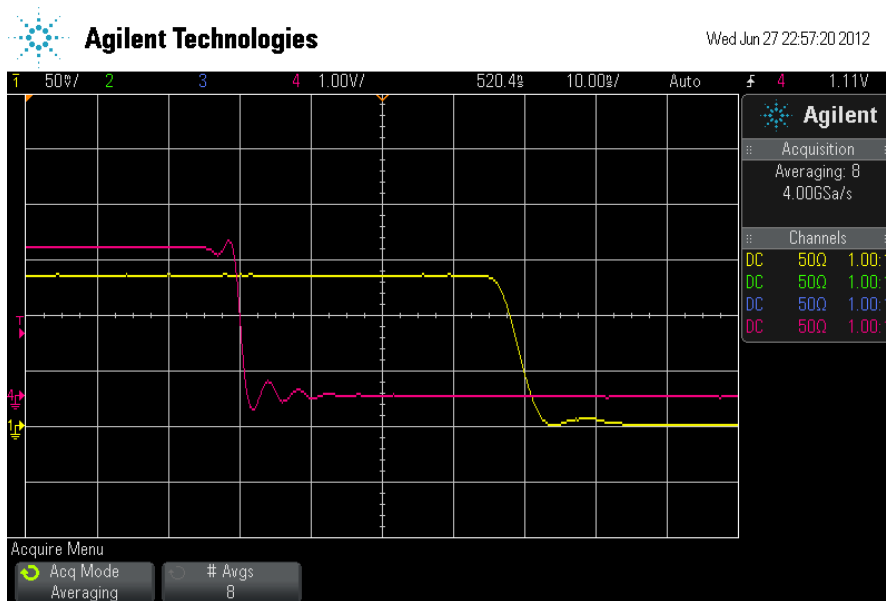
ON Recovery – 10ns per Div.



TYPICAL CHARACTERISTICS ON LM-0518-10-1W-SHS-2-F



OFF Recovery – 10ns per Div.



Purple Trace: RF Pulse @ 1W
Yellow Trace: Limiter output

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