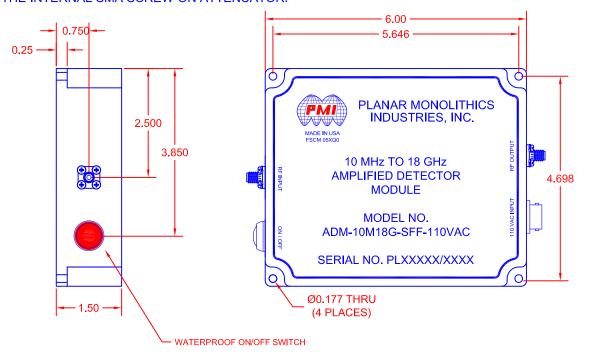
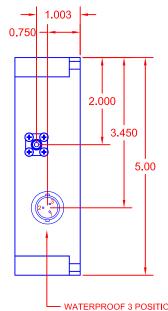
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	REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED	
	1	ORIGINAL RELEASE	5/15/15		
	2	SPECIFICATION CHANGES	11/4/2015		

MECHANICAL OUTLINE



PIN OUT TABLE				
PIN	FUNCTION			
1	LIVE			
2	NEUTRAL			
3	GND			
_				

WATERPROOF 3 POSITION CIRCULAR CONNECTOR DIGIKEY PART NO. HR1787-ND OR EQUIVALENT

ENVIRONMENTAL RATINGS

- TEMPERATURE: --20 °C TO +50 °C (OPERATING) -40 °C TO +85 °C (STORAGE)
- HUMIDITY: -MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE: -MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: -MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES **TOLERANCES:**

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA

WEB: www.pmi-rf.com. EMAIL: sales@pmi-rf.com

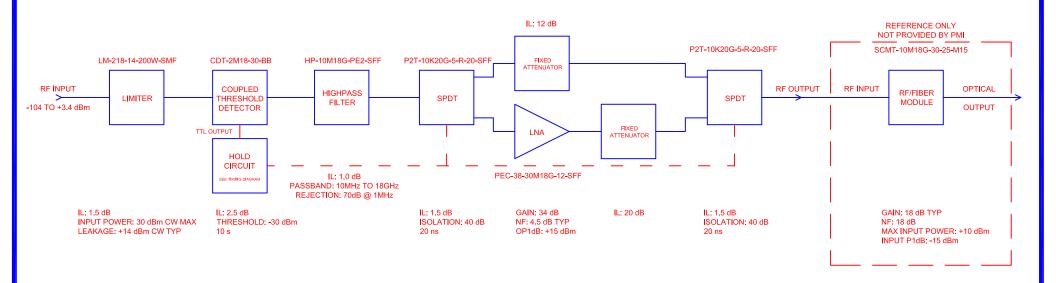


APPROVALS ADM-10M18G-SFF-110VAC M. Berry 05/12/15 FSCM NO. 2 05XQ0 27025451 1 OF 5

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FUNCTIONAL BLOCK DIAGRAM



ENVIRONMENTAL RATINGS

- TEMPERATURE: -20 °C TO +50 °C (OPERATING) -40 °C TO +85 °C (STORAGE)
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- MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

TEMPERATURE CYCLE: -

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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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SPECIFICATIONS

• FREQUENCY RANGE: 10 MHz TO 18.0 GHz

RF INPUT POWER: — 1 WATT CW (+30 dBm) MAXIMUM

• THRESHOLD LEVEL: — -30 dBm

INSERTION LOSS (INPUT TO OUTPUT): — 19 dB TYPICAL (RF > -29 dBm WITH INTERNAL FIXED 12 dB ATTENUATOR) - SEE SHEET 4

NOISE FIGURE: — 37 dB TYPICAL (WITH NO LNA SELECTED & > 500 MHz) - SEE SHEET 4

11 dB TYPICAL (WITH LNA SELECTED & > 500 MHz) - SHEET 4

OUTPUT P1dB: — 1.5 dBm (WITH INTERNAL FIXED 12 dB ATTENUATOR)

INTERNAL SWITCH ISOLATION: ——— 40 dB TYPICAL

GAIN TO NO GAIN, SWITCHING SPEED:—<1.5 µs TYPICAL AND PER TIMING DIAGRAM - SEE SHEET 5

• INTERNAL FIXED ATTENUATOR VALUE:— 12 dB (USER CHANGEABLE FOR IN-SYSTEM OPTIMIZATION)

RF CONNECTORS: — SMA FEMALE

• SIZE: 6.0" X 5.0" X 1.5"

SEALING: INTERNALLY SEALED - WEATHER PROOF

• FINISH: —————BLUE 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: -20 °C TO +50 °C (OPERATING) -40 °C TO +85 °C (STORAGE)

HUMIDITY: — MIL-STD-202F, METHOD 103B COND. B

SHOCK: ______ MIL-STD-202F, METHOD 213B COND. B

ALTITUDE: — MIL-STD-202F, METHOD 105C COND. B

TEMPERATURE CYCLE: — MIL-STD-202F, METHOD 107D COND. A

NOTE; SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

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X.XX ±0.020

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PRODUCT FEATURE ADM-10M18G-SFF-110VAC

ADM-10M18G-SFF-110VAC

| SIZE | FSCM NO. | DWG NO. | REV. | A | 05XQ0 | 27025451 | 2 |
| SCALE N:S | SHEET | 3 OF 5

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CASCADE ANALYSIS					
FIGURE	POWER INPUT	POWER OUTPUT TO	WITH OR		
FIGURE		MITEQ RF/FIBER	WITHOUT LNA		
1	+3.4 dBm	-15.63 dBm	WITHOUT LNA		
2	-29 dBm	-48 dBm	WITHOUT LNA		
3	-30 dBm	-15 dBm	WITH LNA		
4	-104 dBm	-89 dBm	WITH LNA		

REVISIONS

RELEASE

DATE

5/15/15

11/4/2015

APPROVED

DESCRIPTION

SPECIFICATION CHANGES

ORIGINAL

ENVIRONMENTAL RATINGS

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PLANAR MONO	LITHICS INDU	JSTRIES, IN	IC.
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ZONE REV.

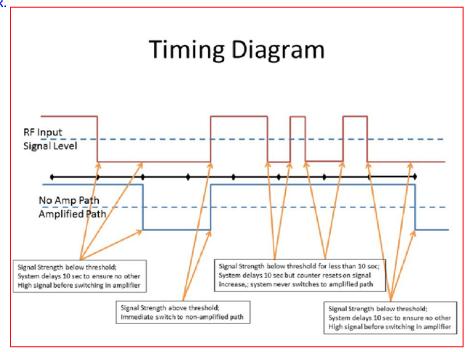
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PRODUCT FEATURE ADM-10M18G-SFF-110VAC

| SIZE | FSCM NO. | DWG NO. | REV | SCALE | N;S | SHEET | 4 OF 5

PMI MODEL NO. ADM-10M18G-SFF-110VAC IS A STATE-OF-THE-ART 10 MHz TO 18.0 GHz INTEGRATED SUBSYSTEM THAT ALLOWS USERS TO INPUT RF SIGNALS AND PROVIDE AUTOMATIC DETECTION WHEN SIGNAL LEVELS FALL BELOW -30 dBm AND AUTOMATICALLY SWITCH IN A LOW NOISE AMPLIFIER SUCH THAT LOW LEVEL SIGNALS CAN REMAIN DETECTABLE. THE PURPOSE OF THIS MODULE IS TO PROVIDE OPTIMUM RF SIGNAL LEVELS TO A RF/FIBER CONVERTER MODULE. THE UNIT IS POWERED BY STANDARD 110VAC. THE RF INPUT IS VIA A SMA FEMALE CONNECTOR AND THE OUTPUT IS VIA A SMA FEMALE CONNECTOR. THIS PRODUCT IS CONFIGURED FOR IN SYSTEM OPTIMIZATION SUCH THAT THE END USER CAN CHANGE THE VALUE OF THE FIXED ATTENUATOR LEVEL BY CHANGING THE INTERNAL SMA SCREW-ON ATTENUATOR.

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2

5 OF 5

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