

DESCRIPTION:

PMI MODEL NUMBER 6SFB-100M18G-1MP-MAH-TX IS A TRANSMIT SWITCHED FILTER BANK COVERING THE FREQUENCY RANGE OF 100 MHz TO 18 GHz. THIS UNIT INCORPORATES TWO 6-WAY SWITCHES ALLOWING ONE OF SIX FILTER PATHS TO BE CHOSEN. THE SPECIFICATIONS ARE LISTED BELOW.

SPECIFICATIONS:

- FREQUENCY: 100 MHz TO 18.0 GHz
- INPUTS: J2
- SWITCHING SPEED: 100 ns TYPICAL
- J2 INPUT: INPUT FROM TRANSCEIVER
- FREQUENCY: 100 MHz TO 18.0 GHz
- POWER LEVEL: -58 dBm TO -28 dBm
- OUTPUTS: J10
- J10 OUTPUT: OUTPUT TO BACKPLANE
- FREQUENCY: 100 MHz TO 18.0 GHz
- POWER LEVEL: 0 dBm TO +10 dBm TYPICAL (WHEN INPUT IS -28 dBm)

- THRU CHANNEL PASSBAND: 100 MHz TO 18 GHz
- CHANNEL 1 CENTER FREQUENCY: 3400 MHz
- 3 dB BANDWIDTH: 2000 MHz
- REJECTION: -40 dBc 100 MHz - 2 GHz, 30dBc MIN.
- 40 dBc 4.8 GHz - 18 GHz, 30 dBc MIN.
- CHANNEL 2 CENTER FREQUENCY: 5400 MHz
- 3 dB BANDWIDTH: 2000 MHz
- REJECTION: -40 dBc 100 MHz - 4 GHz, 30dBc MIN.
- 40 dBc 6.8 GHz - 18 GHz, 30dBc MIN.
- CHANNEL 3 CENTER FREQUENCY: 7400 MHz
- 3 dB BANDWIDTH: 2000 MHz
- REJECTION: -40 dBc 100 MHz - 6 GHz, 30dBc MIN.
- 40 dBc 8.8 GHz - 18 GHz, 30dBc MIN.
- CHANNEL 4 CENTER FREQUENCY: 9400 MHz
- 3 dB BANDWIDTH: 2000 MHz
- REJECTION: -40 dBc 100 MHz - 8 GHz, 30dBc MIN.
- 40 dBc 10.8 GHz - 18 GHz, 30dBc MIN.
- CHANNEL 5 CENTER FREQUENCY: 11400 MHz
- 3 dB BANDWIDTH: 2000 MHz
- REJECTION: -40 dBc 100 MHz - 10 GHz, 30dBc MIN.
- 40 dBc 12.8 GHz - 18 GHz, 30dBc MIN.

- CONTROL LOGIC: 3.3 V TTL
- TTL 8: FILTER SELECT
- 000 CHANNEL 1
- 001 CHANNEL 2
- 010 CHANNEL 3
- 011 CHANNEL 4
- 100 CHANNEL 5
- 101 THRU CHANNEL
- 110 NOT DEFINED
- 111 NOT DEFINED

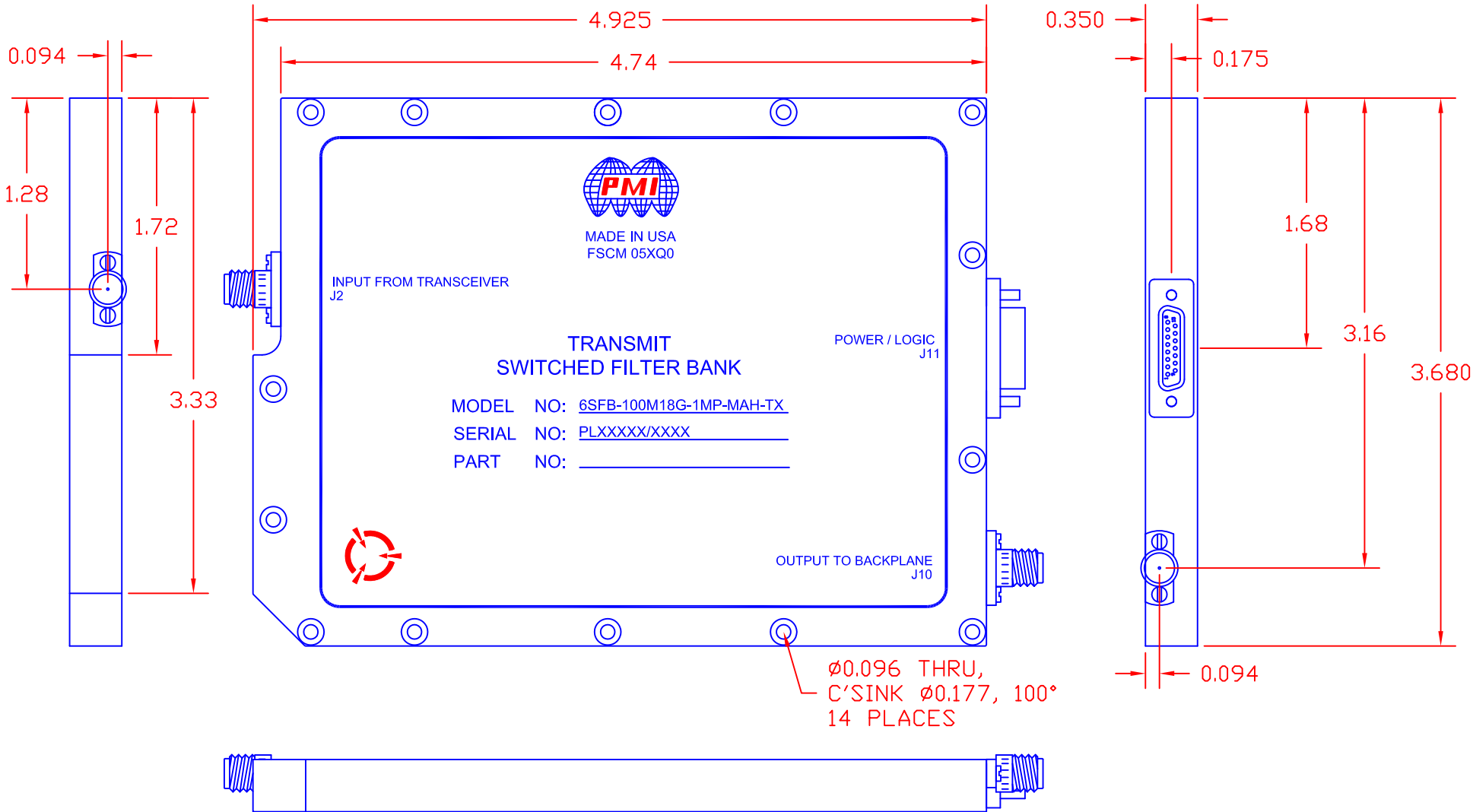
- POWER SUPPLIES: +12 V, -12 V, +5 V, +3.3 V

- SIZE: 4.925" X 3.68" X 0.35"

- RF CONNECTORS: SMA (F)

- DIGITAL / POWER CONNECTOR: 15 PIN MICRO-D
- MATING CONNECTOR PROVIDED
- FINISH: PAINTED GRAY - EPOXY POLIMIDE COATING IAW MIL-C-22750,
- TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- OPERATING TEMPERATURE: -40°C TO +85°C

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/1/13	
	B1	ECN 14-0091	6/11/14	



POWER / LOGIC

ITEM	FUNCTION
1	N/C
2	TTL8 - LSB
3	TTL8 - BIT2
4	TTL8 - MSB
5	N/C
6	+12 V
7	GND
8	+5 V
9	GND
10	+3.3 V
11	GND
12	-12 V
13	GND
14	N/C
15	N/C

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
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ISO 9001 CERTIFIED



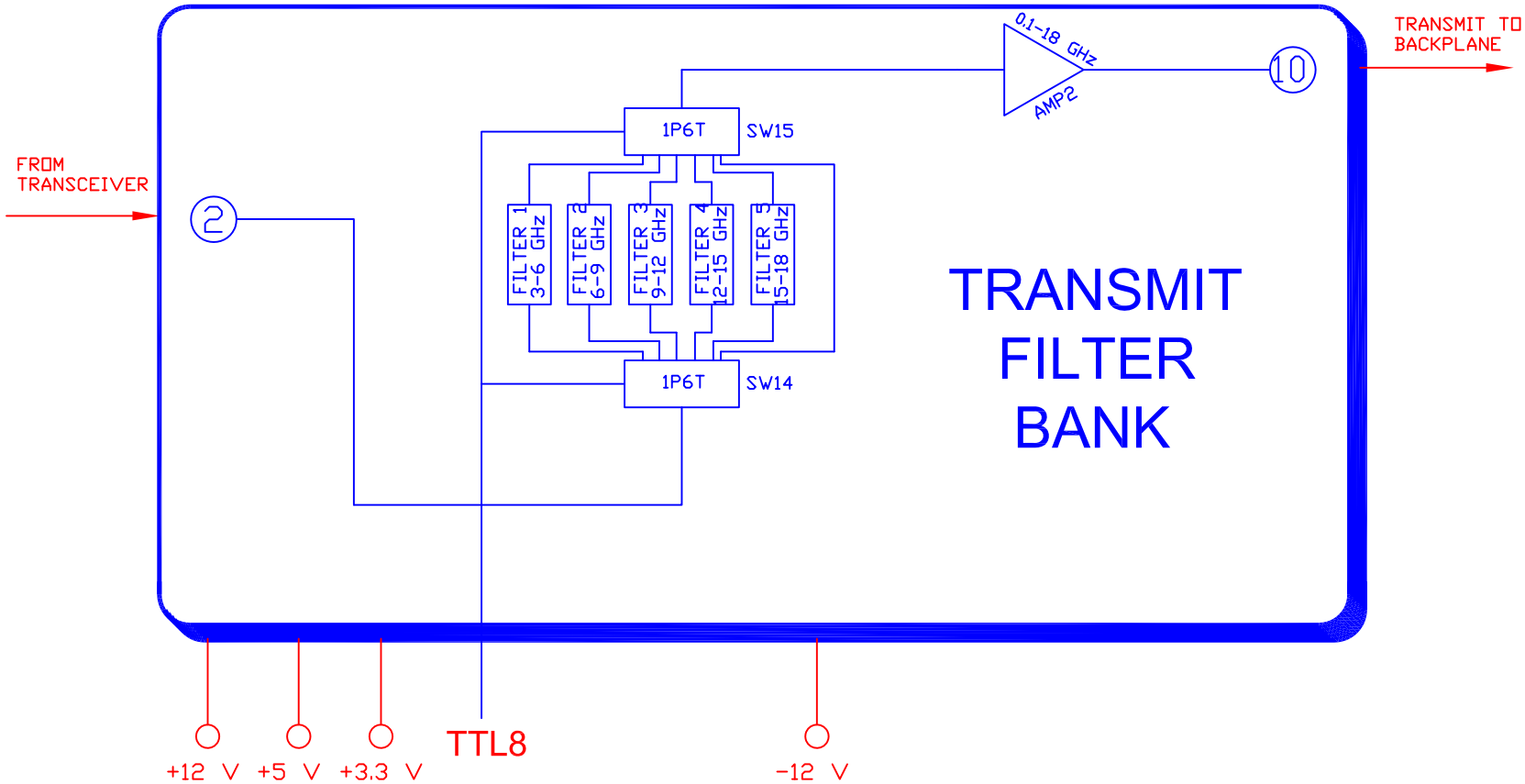
APPROVALS		DATE	TITLE			
DRAWN		4/1/13	PRODUCT FEATURE			
CHECKED			6SFB-100M18G-1MP-MAH-TX			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27017615	B1
			SCALE	N: S		SHEET 1 OF 2

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

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10	+3.3 V
11	GND
12	-12 V
13	GND
14	N/C
15	N/C



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CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27017615	B1
			SCALE	N: S	SHEET	2 OF 2