

DESCRIPTION:

PMI MODEL NUMBER 6SFB-HF-CC-100M18G-MAH-RX-TX IS AN INTEGRATED MODULE CONTAINING TWO 5-CHANNEL SWITCHED FILTER BANKS COVERING 100 MHz TO 18 GHz. A LOSSLESS RECEIVE SWITCHED FILTER BANK AND A LOSSLESS TRANSMIT SWITCHED FILTER BANK ALLOW 1 OF 5 FILTER PATHS TO BE CHOSEN. BOTH FILTER BANKS CAN BE USED SIMULTANEOUSLY IN DIFFERENT BANDS. THE UNIT MEASURES ONLY 4.80" X 3.08" X 0.365".

SPECIFICATIONS:

- INPUTS: J1, J5
- J1 INPUT: RF RECEIVE INPUT
FREQUENCY: 100 MHz TO 18.0 GHz
POWER LEVEL: -62 dBm TO +8 dBm
- J5 INPUT: RF TRANSMIT INPUT
FREQUENCY: 100 MHz TO 18.0 GHz
POWER LEVEL: -15 dBm TO -20 dBm TYPICAL
- OUTPUTS: J2, J6
- J2 OUTPUT: RF RECEIVE OUTPUT
FREQUENCY: 100 MHz TO 18.0 GHz
POWER LEVEL: -62 dBm TO +8 dBm
- J6 OUTPUT: RF TRANSMIT OUTPUT
FREQUENCY: 100 MHz TO 18.0 GHz
POWER LEVEL: -15 dBm TO -20 dBm TYPICAL

RECEIVE SWITCHED FILTER BANK:

- GAIN: 0 dB TYPICAL

TRANSMIT SWITCHED FILTER BANK:

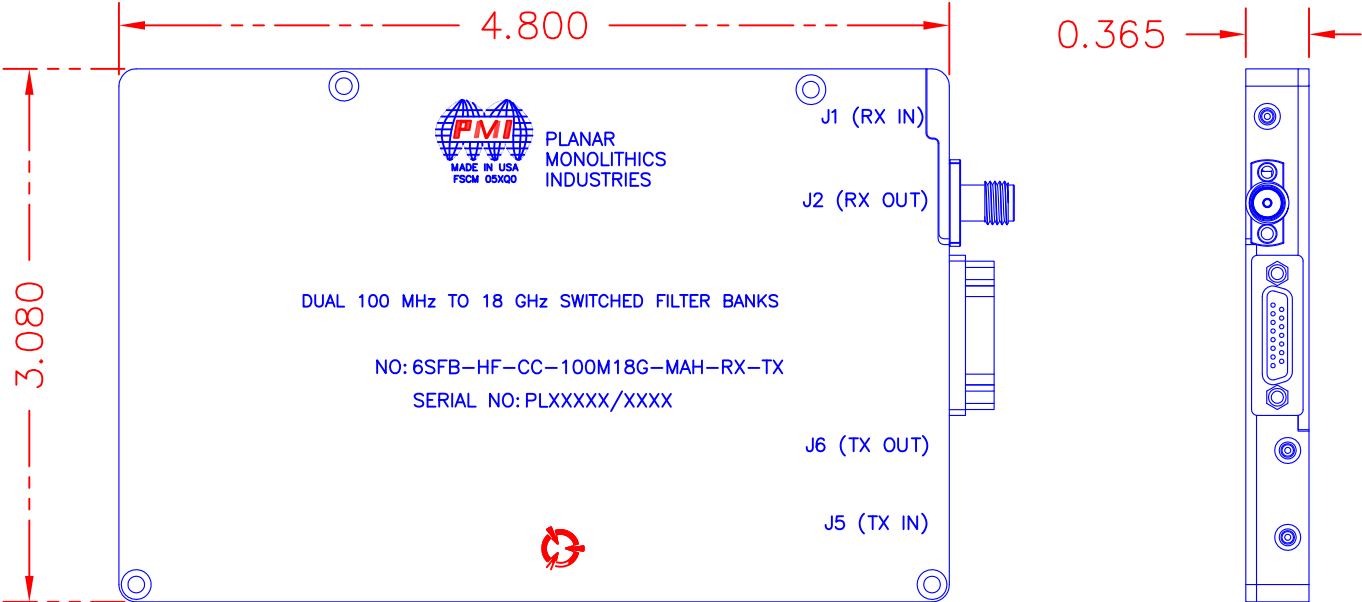
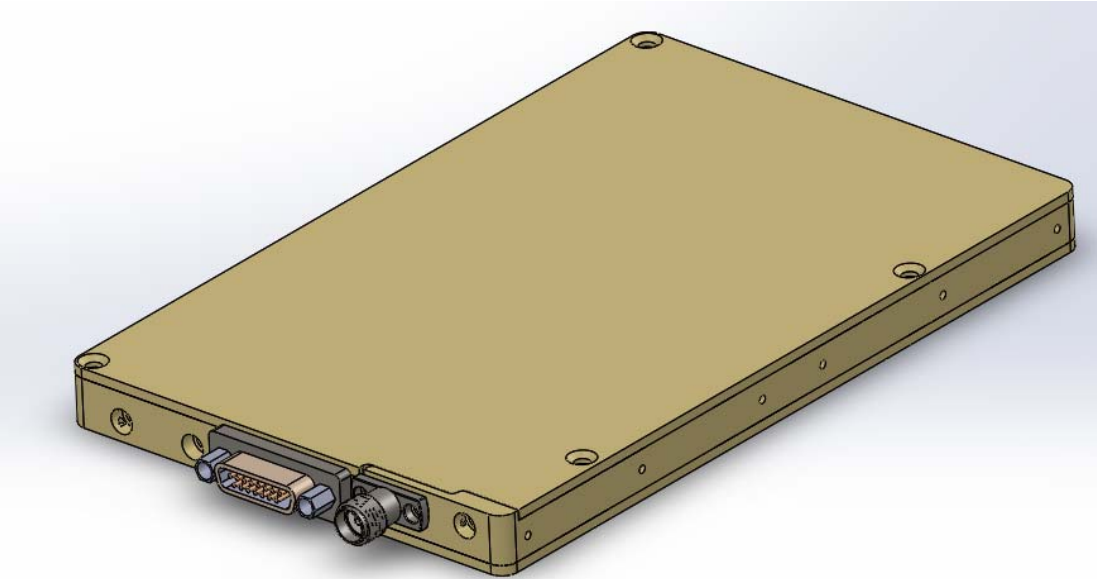
- GAIN: 0 dB TYPICAL

RECEIVE AND TRANSMIT SWITCHED FILTER BANKS:

- VSWR OVER 90% PASSBAND: 2 : 1 MAX
- SWITCHING SPEED: 100 ns TYPICAL
- THRU CHANNEL PASSBAND: 100 MHz TO 18 GHz
- CHANNEL 1 CUTOFF FREQUENCY: 2400 MHz
3 dB BANDWIDTH: 100 MHz - 2400 MHz
REJECTION: -40 dBc TYP 2.8 GHz - 18 GHz, -30 dBc MIN
- CHANNEL 2 CENTER FREQUENCY: 13400 MHz
3 dB BANDWIDTH: 2000 MHz
REJECTION: -40 dBc TYP 100 MHz - 12 GHz, -30 dBc MIN
-40 dBc TYP 14.8 GHz - 18 GHz, -30 dBc MIN
- CHANNEL 3 CENTER FREQUENCY: 15400 MHz
3 dB BANDWIDTH: 2000 MHz
REJECTION: -40 dBc TYP 100 MHz - 14 GHz, -30 dBc MIN
-40 dBc TYP 16.8 GHz - 18 GHz, -30 dBc MIN
- CHANNEL 4 CENTER FREQUENCY: 17200 MHz
3 dB BANDWIDTH: 1600 MHz
REJECTION: -40 dBc TYP 100 MHz - 16 GHz, -30 dBc MIN
-40 dBc TYP 18.4 GHz - 20 GHz, -30 dBc MIN

- CONTROL LOGIC: TTL ('0': 0 - 0.8 VOLTS), ('1' 2 - 5 VOLTS)
- TTL 14: RECEIVE FILTER SELECT
 - 000 THRU CHANNEL
 - 001 CHANNEL 1
 - 010 CHANNEL 2
 - 011 CHANNEL 3
 - 100 CHANNEL 4
 - 101 NOT DEFINED
 - 110 NOT DEFINED
 - 111 NOT DEFINED
- TTL 15: TRANSMIT FILTER SELECT
 - 000 THRU CHANNEL
 - 001 CHANNEL 1
 - 010 CHANNEL 2
 - 011 CHANNEL 3
 - 100 CHANNEL 4
 - 101 NOT DEFINED
 - 110 NOT DEFINED
 - 111 NOT DEFINED
- POWER SUPPLIES:
 - +12V: 600 mA MAX
 - +5V: 550 mA MAX
 - +3.3V: 0 mA *NOT NEEDED
 - 12V: 300 mA MAX
- SIZE: 4.80" x 3.08" x 0.365"
- RF CONNECTORS: SMPM (F)
- FINISH: GOLD PLATED

PIN	FUNCTION
1	NC
2	TTL14A (LSB)
3	TTL14B
4	TTL14C
5	TTL15A (LSB)
6	TTL15B
7	TTL15C
8	GND
9	+12V
10	GND
11	+5V
12	GND
13	+3.3V
14	GND
15	-12V



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ISO 9001 CERTIFIED



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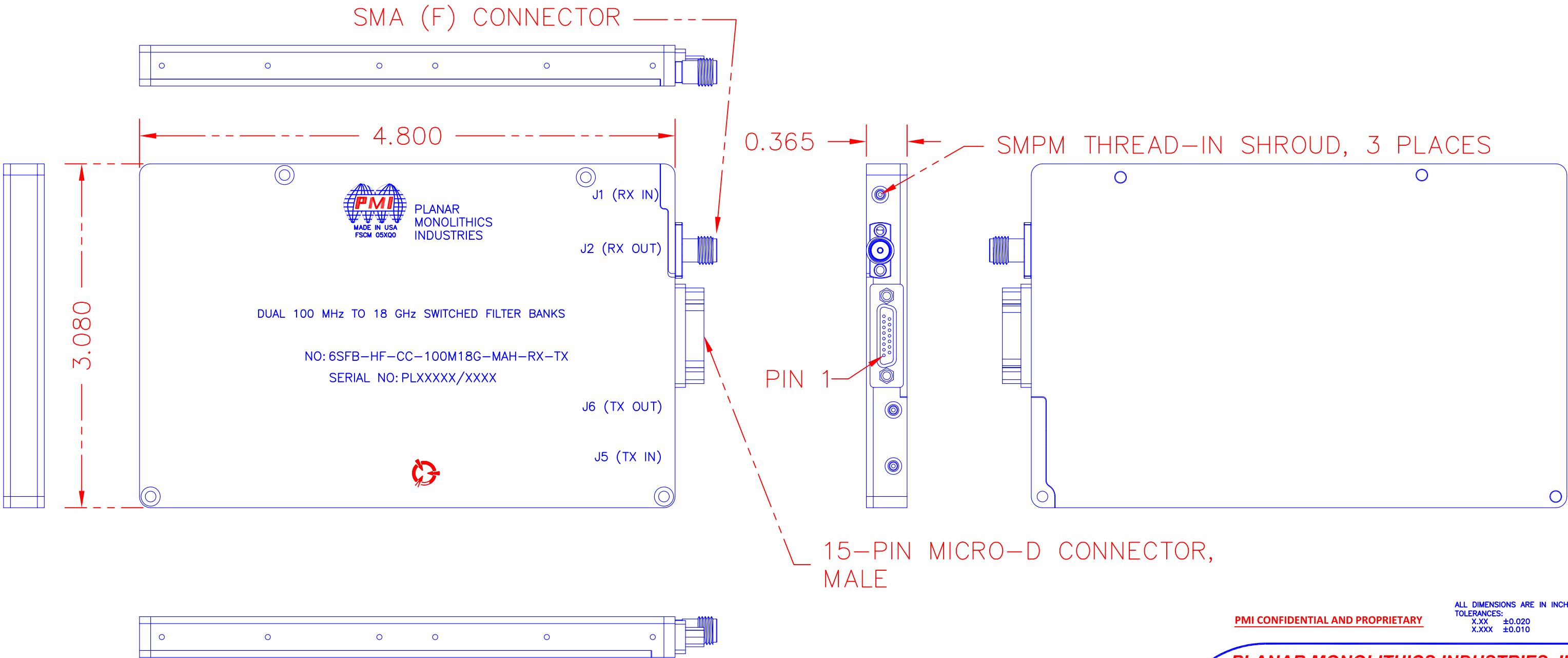
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

APPROVALS		DATE	TITLE			
DRAWN <i>JNR</i>		12/18/19	PRODUCT FEATURE 6SFB-HF-CC-100M18G-MAH-RX-TX			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			B	05XQ0	PRELIMINARY	1
			SCALE	N:S	SHEET	1 OF 3

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

MECHANICAL OUTLINE:

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	12/10/15	



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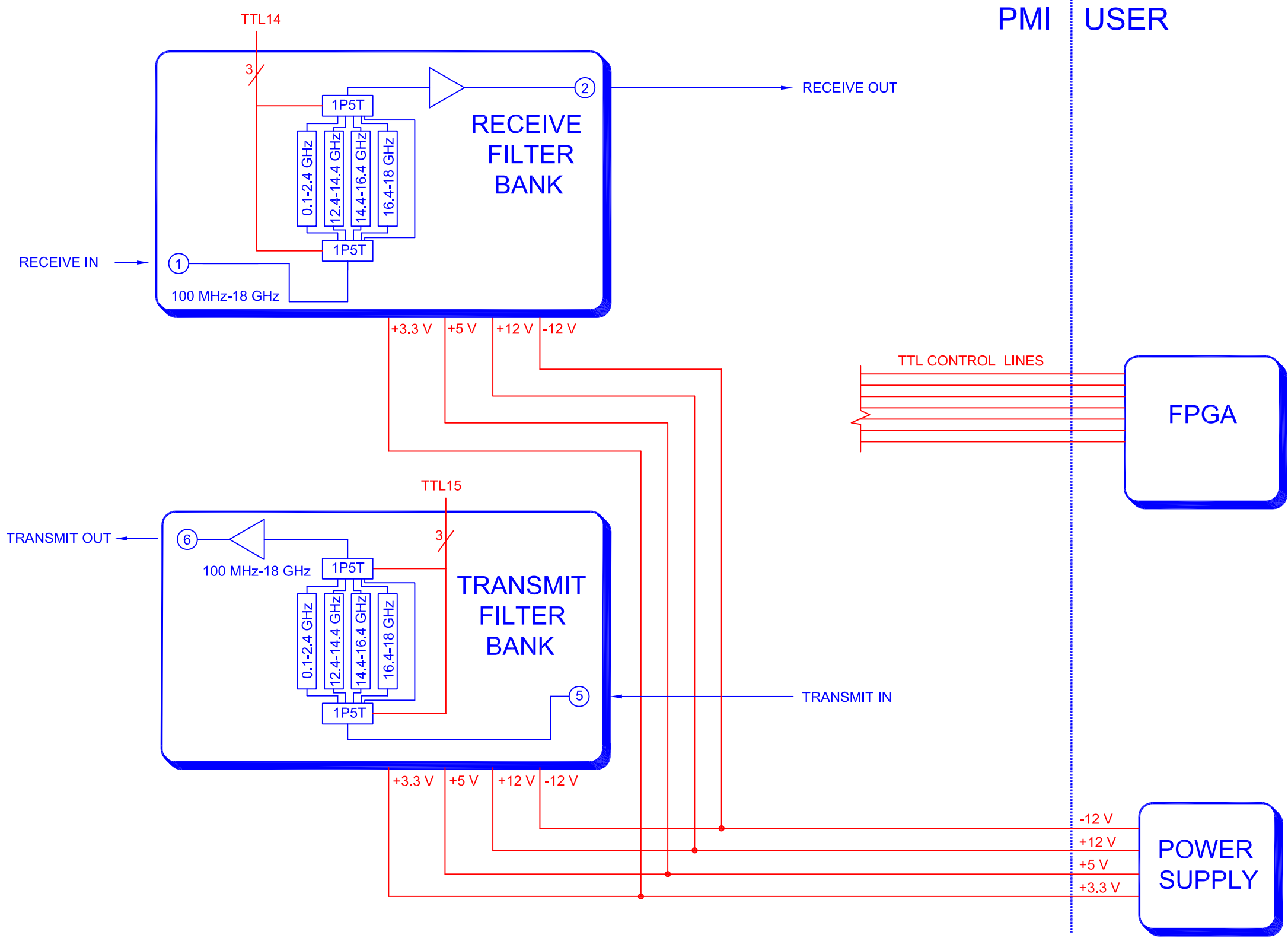


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DRAWN <i>JNR</i>		12/10/15	PRODUCT FEATURE 6SFB-HF-CC-100M18G-MAH-RX-TX			
CHECKED			SIZE B	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
ISSUED			SCALE N:S	SHEET 2 OF 3		

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	12/10/15	

BLOCK DIAGRAM:

PMI USER



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ISSUED			B	05XQ0	PRELIMINARY	1
			SCALE	N:S	SHEET	3 OF 3