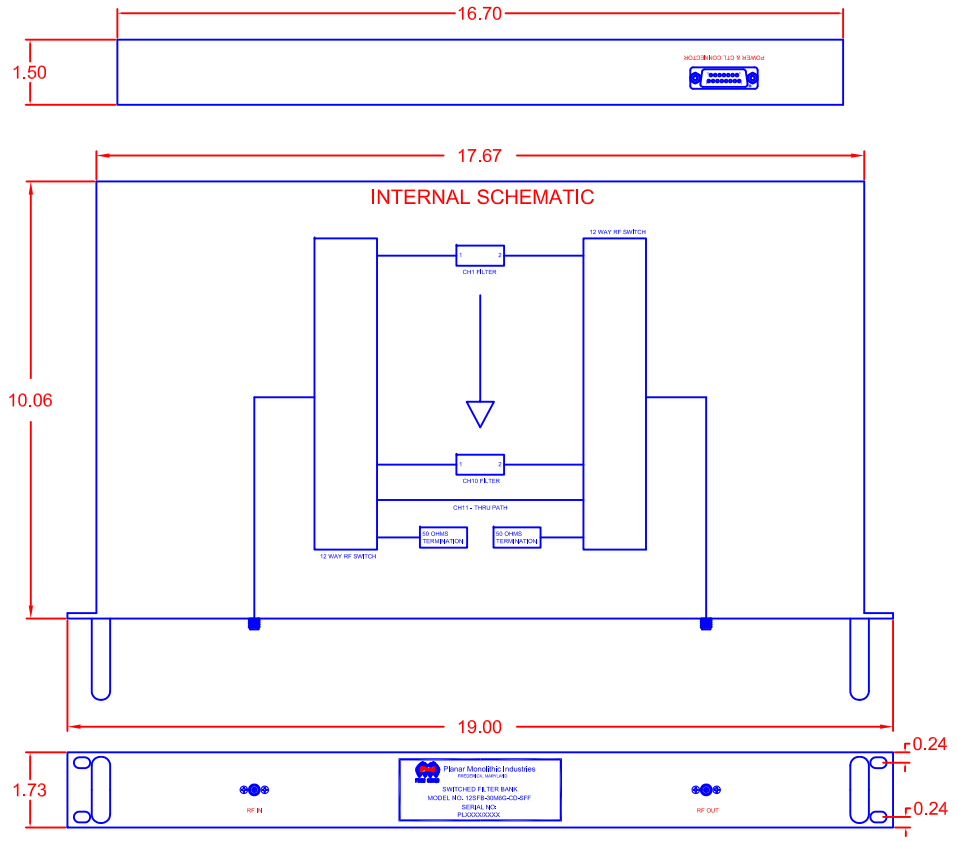
DESCRIPTION:

PMI MODEL 12SFB-30M6G-CD-SFF IS A TWELVE CHANNEL SWITCHED FILTER BANK OFFERING ULTRA FAST SWITCH SPEED, HIGH REJECTION WITH LOW LOSS. THIS MODEL IS IDEAL FOR HARMONIC REJECTION AND IMPROVE DYNAMIC RANGE DURING LINEARITY TESTING OF ACTIVE DEVICES.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	5/7/2021	

SPECIFICATIONS:

- FREQUENCY RANGE: ..... 0.03 GHz TO 6.0 GHz
- INSERTION LOSS: ..... 8 dB MAX. (0.03 TO 6.0 GHz)
- VSWR: ..... 2.0:1 MAX.
- SECOND HARMONIC REJECTION: ..... 50 dBc @ 0dBm INPUT POWER
- IMPEDANCE: ..... 50 OHMS
- SWITCHING SPEED: ..... 500 ns MAX
- CONTROL: ..... TTL, 4 BITS
- POWER SUPPLY: ..... +5VDC; 750mA Typ.
  -15VDC; 100mA Typ.
- CONNECTOR: ..... SMA FEMALE
- SIZE: ..... 1U, 19 INCH RACK
- FINISH: ..... BLUE POWDER COAT
  ON FRONT PANEL



LOGIC TABLE				FILTER PATH	FILTER PASSBAND (GHz)	UPPER REJECTION (GHz)	REJECTION LEVEL (dB) MIN
E4	E3	E2	E1				
0	0	0	0	CHANNEL 1	0.03 - 0.05	0.06 TO 12.0	50
0	0	0	1	CHANNEL 2	0.03 - 0.08	0.1 TO 12.0	50
0	0	1	0	CHANNEL 3	0.03 - 0.13	0.16 TO 12.0	50
0	0	1	1	CHANNEL 4	0.03 - 0.22	0.26 TO 12.0	50
0	1	0	0	CHANNEL 5	0.03 - 0.38	0.44 TO 12.0	50
0	1	0	1	CHANNEL 6	0.03 - 0.66	0.76 TO 12.0	50
0	1	1	0	CHANNEL 7	0.03 - 1.15	1.32 TO 12.0	50
0	1	1	1	CHANNEL 8	0.03 - 2.0	2.3 TO 12.0	50
1	0	0	0	CHANNEL 9	0.03 - 3.5	4.0 TO 12.0	50
1	0	0	1	CHANNEL 10	0.03 - 6.0	7.0 TO 18.0	50
1	0	1	0	CHANNEL 11	THRU	N/A	N/A
1	0	1	1	CHANNEL 12	INT / TERMINATED	N/A	N/A

15 PIN CONNECTOR	
PIN #	FUNCTION
1	E1
2	E2
3	E3
4	E4
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	GND
12	+5 V
13	GND
14	-15 V
15	GND

ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... 0°C TO +50°C (OPERATING & STORAGE)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

CONFIDENTIAL AND PROPRIETARY

PART NO.		
APPROVALS		DATE
DRAWN	SPH	5/7/2021
CHECKED		
ISSUED		

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TITLE
OUTLINE DRAWING
12SFB-30M6G-CD-SFF
SWITCHED FILTER BANK

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	—

SCALE | SHEET 1 of 1