

DESCRIPTION:

PMI MODEL 3SFB-0R52R0-CD-SFF IS A THREE CHANNEL SWITCHED FILTER BANK OFFERING FAST SWITCH SPEED & HIGH REJECTION WITH LOW LOSS.

SPECIFICATIONS:

- FREQUENCY RANGE: 0.5 GHz TO 2 GHz
- INSERTION LOSS: 4dB GOAL, 5dB MAX
- ISOLATION: 60 dBc MIN.
- VSWR: 2.0:1 MAX.
- IMPEDANCE: 50 OHMS
- SWITCHING SPEED: 200 ns MAX. (FROM 50%TTL TO 90%/10% RF)
- PASSBAND OVERLAP: 10 MHz MIN., 50 MHz MAX.
- POWER HANDLING: +22dBm MIN.
- VIDEO FEED THRU: -65dBm MAX. @ 1MHz BW, 0.4-2GHz
- LOGIC INPUT: TTL COMPATIBLE, 4 BITS DECODED
TTL HIGH = 2V MIN.
TTL LOW = 0.8V MAX.
- POWER SUPPLY: +5VDC; 120mA MAX.
-15VDC; 50mA MAX.
- HARMONICS: -65dBc Min, relative to RF Out, tested with +22dBm @ RF In.
- CONNECTOR: RF SMA FEMALE (REMOVABLE) / DC & LOGIC FEMALE 9 PIN MICRO-D
- SIZE: 2.75" (L) X 1.75" (W) X 0.75" (H)
- FINISH: GREY EPOXY PAINT

FILTER CHARACTERISTICS

PARAMETER	FILTER A	FILTER B	FILTER C
PASSBAND	0.5 - 0.8 GHz	0.8 - 1.3 GHz	1.3 - 2.0 GHz
50 dBc STOP BAND	1.0 - 1.6 GHz	1.6 - 4.0 GHz	2.8 - 5.0 GHz
50 dBc STOP BAND	DC - 0.2 GHz	DC - 0.4 GHz	DC - 0.4 GHz

LOGIC TABLE	
9 8 7 6	PIN
1 1 1 0	FILTER A
1 1 0 1	FILTER B
1 0 1 1	FILTER C

DC PIN OUT	
PIN	FUNCTION
1	+5 V DC
2	GND
3	-15 V DC
4	GND
5	N/C
6	TTL 1
7	TTL 2
8	TTL 3
9	TTL 4

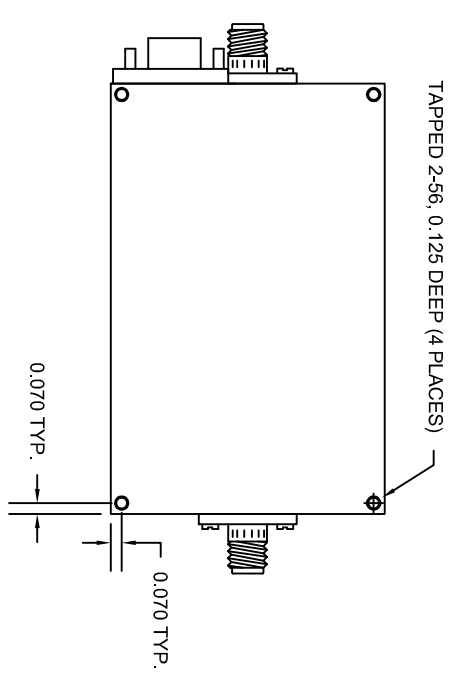
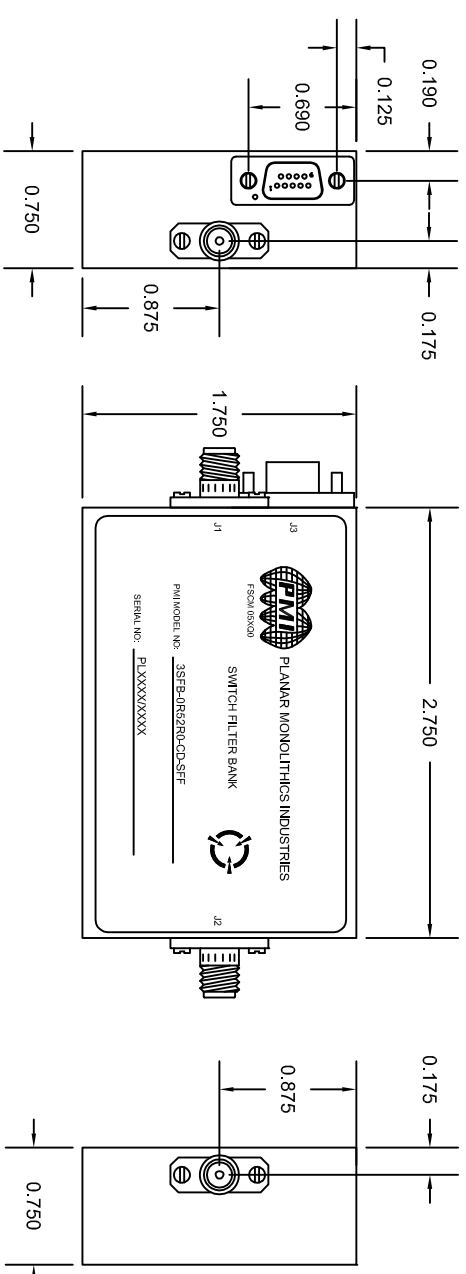
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D 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

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

REVISIONS			
ZONE	REV./	DATE	APPROVED
	A	8/20/09	



PART NO.		TITLE	
APPROVALS		PLANAR MONOLITHICS INDUSTRIES 5715 INDUSTRY LANE UNIT 11 FREDERICK, MARYLAND	
DRAWN	DATE	SIZE	DWG NO.
S. PALACIO	8/20/09	A	27010881
CHECKED		SCALE	SHEET
ISSUED		A	1 of 1

DESCRIPTION ORIGINAL RELEASE

OUTLINE DRAWING
3SFB-0R52R0-CD-SFF
SWITCHED FILTER BANK