

DESCRIPTION:

PMI MODEL 14SFB-30M3G-19IN2U IS A 14 CHANNEL SWITCHED FILTER BANK WITH A FREQUENCY RANGE FROM 30 MHZ TO 3 GHZ. THE INTERNAL SWITCHES ARE ELECTRO-MECHANICALLY CONTROLLED.

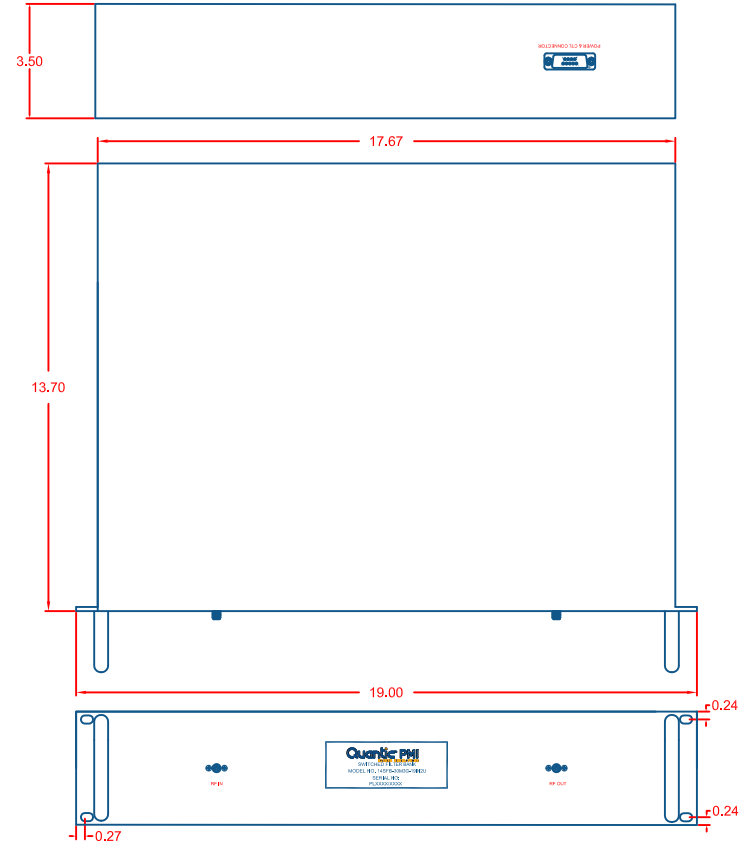
SPECIFICATIONS:

- FREQUENCY RANGE: 0.03 GHz TO 3.0 GHz
- INSERTION LOSS: 8 dB TYP, 10 dB MAX
- VSWR: 1.6:1 TYP, 1.8:1 MAX
- CHANNEL ISOLATION: 60 dB TYP
- INPUT POWER: 40 dBm
- IMPEDANCE: 50 OHMS
- SWITCHING SPEED: 15 ms TYP, 20 ms MAX
- CONTROL: 4 BIT TTL,
- POWER SUPPLY: +12VDC; 1000 mA Typ.
- CONNECTOR: RF: SMA FEMALE
DC: 9 PIN MICROD
- SIZE: 2U, 19 INCH RACK
- FINISH: BLUE POWDER COAT

| C4 | C3 | C2 | C1 | FILTER PATH | FILTER PASSBAND (MHz) | LOWER REJECTION (MHz) | UPPER REJECTION (MHz) |
|----|----|----|----|-------------|-----------------------|-----------------------|-----------------------|
| 0 | 0 | 0 | 0 | THRU | - | - | - |
| 0 | 0 | 0 | 1 | CHANNEL 1 | 30-42 | DC~15MHz±60dBc | 67~800MHz±60dBc |
| 0 | 0 | 1 | 0 | CHANNEL 2 | 42-60 | DC~17MHz±60dBc | 100~800MHz±60dBc |
| 0 | 0 | 1 | 1 | CHANNEL 3 | 60-85 | DC~25MHz±60dBc | 145~800MHz±60dBc |
| 0 | 1 | 0 | 0 | CHANNEL 4 | 85-120 | DC~40MHz±60dBc | 180~800MHz±60dBc |
| 0 | 1 | 0 | 1 | CHANNEL 5 | 120-170 | DC~50MHz±60dBc | 250~800MHz±60dBc |
| 0 | 1 | 1 | 0 | CHANNEL 6 | 170-240 | DC~80MHz±60dBc | 360~1000MHz±60dBc |
| 0 | 1 | 1 | 1 | CHANNEL 7 | 240-340 | DC~140MHz±60dBc | 470~1000MHz±60dBc |
| 1 | 0 | 0 | 0 | CHANNEL 8 | 340-480 | DC~200MHz±60dBc | 620~1000MHz±60dBc |
| 1 | 0 | 0 | 1 | CHANNEL 9 | 480-700 | DC~320MHz±60dBc | 860~1500MHz±60dBc |
| 1 | 0 | 1 | 0 | CHANNEL 10 | 700-1000 | DC~500MHz±60dBc | 1250~2000MHz±60dBc |
| 1 | 0 | 1 | 1 | CHANNEL 11 | 1000-1400 | DC~700MHz±60dBc | 1750~3000MHz±60dBc |
| 1 | 1 | 0 | 0 | CHANNEL 12 | 1400-2000 | DC~1000MHz±60dBc | 2500~4000MHz±60dBc |
| 1 | 1 | 0 | 1 | CHANNEL 13 | 2000-3000 | DC~1200MHz±60dBc | 3900~5000MHz±60dBc |

| 9 PIN CONNECTOR | |
|-----------------|----------|
| PIN # | FUNCTION |
| 1 | +12V |
| 2 | +12V |
| 3 | GND |
| 4 | GND |
| 5 | C1 |
| 6 | C2 |
| 7 | C3 |
| 8 | C4 |
| 9 | NC |

| REVISIONS | | | | |
|-----------|------|------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A1 | ORIGINAL RELEASE | 10/31/23 | |
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ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +75°C (OPERATING)
-55°C TO +125°C (STORAGE)

PMI CONFIDENTIAL AND PROPRIETARY

| APPROVALS | | DATE | TITLE | | |
|------------------|--|----------|---------------------------------------|-------------------|------------------------|
| DRAWN <i>MDL</i> | | 10/31/23 | PRODUCT FEATURE 14SFB-30M3G-19IN2U | | |
| REDRAWN | | | SIZE A | FSCM NO. 05XQ0 | DWG NO. PRELIMINARY |
| ISSUED | | | SCALE N:S | SHEET 1 OF 1 | REV. 1 |