

6880 Series

Spectrum Cleanup Filter: 5.0MHz to 150 MHz



- Proportional bandwidth 2-pole crystal filter - 3dB passband & 15dB stopband widen proportional to center frequency
- Low SSB phase noise (-122dBc/Hz @ 10Hz offset, -132dBc/Hz @ 100Hz offset and -132dBc/Hz @ 1000Hz offset)
- Applications where clock/timing chain signal noise reduction is primary goal

Ordering Information

00.000 Mhz

Product Series ————— 6880

Designator ————— VBB

Blank=F (Through Hole)

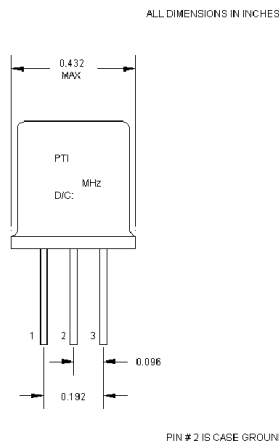
See chart for correct designator or contact the factory for additional connector types

Frequency —————

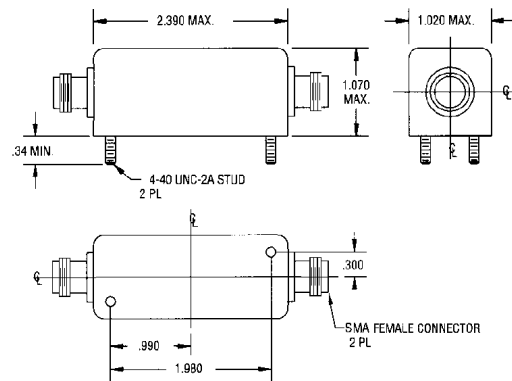
(Customer Specified)

The ordering convention for a connectorized 6880 Series filters with SMA-Female connectors on both the input and output would be 6880VBM @ 100.00MHz. For other, most popular connector types, reference the table and for others not listed consult the factory.

| Designator | Connector Set (Input & Output) | Designator | Connector Set (Input & Output) |
|------------|--------------------------------|------------|--------------------------------|
| VBB | BNC-Female & BNC-Female | VBP | RCA- Female & RCA- Female |
| VBC | UHF- Female & UHF- Female | VBR | N- Female & N-Male |
| VBI | OSM-212 & OSM-212 | VBU | F- Female & F- Female |
| VBL | TNC- Female & TNC- Female | VBV | SMC- Female & SMC- Female |
| VBM | SMA- Female & SMA- Female | VBW | UHF- Female & S)-239 |
| VBN | N- Female & N- Female | VBX | N-Male & N-Male |
| VBO | BNC-Male & BNC- Female | VBZ | PL-259 and SO-239 |



**6880 F Package
(2 pole F case)**



**6880 Connectorized Package
(50Ω Terminated)**

| Center Frequency Range (F _{ON}) | Passband @ 3dB | Stopband @ 15dB | Insertion Loss (dB) | Amplitude Ripple (dB) | Operating Temperature |
|---|-----------------------------------|------------------------------------|---------------------|-----------------------|-----------------------|
| 5.0MHz to 150.0MHz | ±75ppm x F _{ON} (in MHz) | ±375ppm x F _{ON} (in MHz) | 2.0 to 6.0 | 1.0 | 0°C to +75°C |

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.