Specification for monolithic crystal filter: **MQF 90.0 – 3000/08**

1. **General**

1.1. **Package:**

1.2. Type name: MQF 90.0-3000/08

1.3. Number of poles: 6

1.4. Operating temperature range: -20°C to +70°C

1.5. Storage temperature range: -45°C to +85°C

2. **Electric values**

2.1. Nominal centre frequency fo: 90.0 MHz

2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies: > ± 15 kHz

2.2.2. Ripple in pass band: < 1.0 dB (peak to peak)

2.2.3. Differential group delay: < 15 μs at fo ± 6 kHz

2.2.4. Insertion loss:

   < 5.0 dB

   (measured on smallest attenuation in pass band)

2.3. **Stop band**

2.3.1. fo ± 25 kHz: > 10 dB

2.3.2. fo ± 50 kHz: > 25 dB

2.3.3. fo ± 100 kHz: > 70 dB (except spurious)

2.4. Terminating impedance (input and output): 50 Ω // 0 pF

2.5. 3rd order out band intermodulation products (IP3)

   - test tones: fo ± 100 / fo ± 200 kHz
   - input power level: -5 dBm per tone: > +30 dBm (70dB down from both -5dBm test tones)
   - input power level: -15 dBm per tone: > +25 dBm (80dB down from both -15dBm test tones)

2.6. Maximum input power level: 0 dBm / +10 dBm (operating / without damage)

3. **Marking:**

   manufacturer, date code
   27L32693818
   MQF 90.0-3000/08

4. **Environment conditions:** Corresponding to Vectron MIL standard

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Edited by: date: ___________________________ name: ___________________________