Specification for monolithic crystal filter:  

**MQF 45.0 - 2500/02**

1. **General**
   1.1. **Package:**

   ![Diagram of package](Image)

   - **Type name:** MQF 45.0 - 2500/02
   - **Number of poles:** 4
   - **Operable temperature range:** -30°C to +80°C
   - **Operating temperature range:** -25°C to +70°C
   - **Storage temperature range:** -55°C to +80°C

2. **Electric values**
   2.1. **Nominal centre frequency fo:** 45.0 MHz
   2.2. **Pass band**
      2.2.1. Bandwidth between 3 dB - frequencies: ≥ fo ± 12.5 kHz
      2.2.2. Ripple: ≤ 1.0 dB at fo ± 8 kHz
      2.2.3. Group delay distortion: ≤ 2.5 μs at fo ± 8 kHz
      2.2.4. Insertion loss: ≤ 4.0 dB
      
      (measured on smallest attenuation in pass band)

   2.3. **Stop band**
      2.3.1. fo ± 900 kHz ≥ 80 dB
      2.3.2. Spurious responses: ≥ 30 dB
      2.4. **Terminating impedance (input and output):** 50 Ω // 0 pF
      2.5. **Maximum input power level:** 10 mW

3. **Marking:**
   - **manufacturer, date code:** MQF 45.0-2500/02

4. **Environment conditions:**
   - Corresponding to Vectron standard CF001

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