Specification for crystal filter:

**Q F 5.0 - 0040/04**

1. General
   1.1. Package:
   - Diagram showing package details
   1.2. Type name: QF 5.0-0040/04
   1.3. Number of poles: 4
   1.4. Operating temperature range: -20°C to +70°C
   1.5. Storage temperature range: -40°C to +85°C

2. Electric values
   2.1. Nominal centre frequency $f_0$: 5.0 MHz
   2.2. Pass band
      2.2.1. Centre frequency $f_c$ (at +25°C): 5.0 MHz ± 60 Hz
      2.2.2. Bandwidth between 3 dB - frequencies: $f_c ± 0.2$ kHz
      2.2.3. Ripple in pass band: < 0.5 dB (Gaussian curve shape)
      2.2.4. Differential group delay within $f_c ± 0.2$ kHz: < 400 µs
      2.2.5. Insertion loss:
           (measured on smallest attenuation in pass band) < 6.0 dB
   2.3. Stop band
      2.3.1. $f_c +1.2$ kHz / $f_c -1.5$ kHz: > 40 dB
      2.3.2. $f_c +1.8$ kHz / $f_c -2.7$ kHz: > 60 dB
      2.3.3. $f_c -4.0$ kHz: > 70 dB
      2.3.4. $f_c +2.8$ kHz: > 80 dB
      2.3.5. Guaranteed attenuation (fc ± 910 kHz): > 80 dB
   2.4. Terminating impedance (input and output): 50 Ω // 0 pF
   2.5. Maximum input power level:
        +10 dBm / +15 dBm (working / non-damaged)

3. Marking:
   - Manufacturer, date code
   - QF 5.0-0040/04

4. Environment conditions:
   - Corresponding to Vectron MIL standard

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Edited by: _____________________________   name: _______________________________