Specification for monolithic crystal filter: \texttt{MQF 10.7-0840/07}

1. **General**
   1.1. Package:

   ![Filter Package Diagram]

   1.2. Type name: MQF 10.7-0840/07
   1.3. Number of poles: 10
   1.4. Operating temperature range: \(-40^\circ\text{C} \text{ to } +85^\circ\text{C}\)
   1.5. Storage temperature range: \(-55^\circ\text{C} \text{ to } +85^\circ\text{C}\)

2. **Electric values**

   2.1. Nominal centre frequency \(f_0\): 10.7 MHz

2.2. **Pass band**

   2.2.1. Centre frequency \(f_c\): 10.7 MHz \(\pm 350\) Hz
   2.2.2. Bandwidth between 3 dB - frequencies: \(\geq f_0 \pm 4.2\) kHz
   2.2.3. Ripple (at \(f_0 \pm 3.15\) kHz): \(\leq 1.0\) dB
   2.2.4. Group delay difference between 2 filters of a pair: \(\leq 35\) \(\mu\)s (at \(f_0 \pm 2.52\) kHz)
   2.2.5. Insertion loss: \(\leq 3.5\) dB
      (measured on smallest attenuation in pass band)

2.3. **Stop band**

   2.3.1. \(f_0 \pm 8.5\) kHz \(\geq 60\) dB
   2.3.2. \(f_0 \pm 10.5\) kHz \(\geq 80\) dB
   2.3.3. Alternate attenuation: \(\geq 80\) dB

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

3. **Marking:**

   Manufacturer, date code
   MQF 10.7-0840/07

4. **Environment conditions:**

   Corresponding to Vectron standard CF001

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Edited by: _____________________________  date: _____________________________  name: _______________________________