Specification for monolithic crystal filter: **Q F 10.7 - 0050/04**

1. **General**
   1.1. Package:

   ![GM17 Diagram]

   1.2. Type name: QF 10.7-0050/04
   1.3. Number of poles: 4
   1.4. Operating temperature range: 0°C to +50°C
   1.5. Storage temperature range: -20°C to +70°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 ± 75 Hz
   2.2.2. Bandwidth between 3 dB - frequencies:
   \[ \geq f_c \pm 225 \text{ Hz} \]
   \[ \leq f_c \pm 275 \text{ Hz} \]

   2.2.3. Ripple (at \( f_c \pm 100 \text{ Hz} \)):
   \[ \leq 0.6 \text{ dB} \]
   2.2.4. Phase tracking for pairs at \( f_c \pm 200 \text{ Hz} \):
   \[ \leq 15^\circ \]
   2.2.5. Reflection loss (at \( f_c \pm 150 \text{ Hz} \)):
   \[ \geq 9.55 \text{ dB} \text{ (i.e. VSWR < 2)} \]
   2.2.6. Insertion loss:
   \[ \leq 5.0 \text{ dB} \]
   (measured on smallest attenuation in pass band)

2.3. **Stop band**

   2.3.1. \( f_0 \pm 2.5 \text{ kHz} \)
   \[ \geq 60 \text{ dB} \]
   2.3.2. Alternate attenuation:
   \[ \geq 80 \text{ dB} \text{ (except spurious)} \]

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

3. Marking:
   manufacturer, date code
   QF 10.7-0050/04

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

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Edited by: ___________________________ date: __________________________ name: __________________________