Specification for monolithic crystal filter: **MQF 10.7-0300/11**

1. **General**
   1.1. Package:

   ![Diagram of the package](image)

   1.2. Type name: MQF 10.7-0300/11
   1.3. Number of poles: 6
   1.4. Operating temperature range: 0°C to +50°C
   1.5. Storage temperature range: -25°C to +85°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 ± 400 Hz
   2.2.2. Bandwidth between 3 dB - frequencies: \( \geq f_c \pm 1.35 \text{ kHz} \)
   \( \leq f_c \pm 1.65 \text{ kHz} \)
   2.2.3. Ripple (at \( f_c \pm 0.75 \text{ kHz} \)): \( \leq 0.5 \text{ dB} \)
   2.2.4. Phase difference for pairs at \( f_c \) (\( \Delta \phi_c \)):
   \( \leq 12^\circ \)
   2.2.5. Phase tracking for pairs referred back to \( \Delta \phi_c \):
   \( \leq 6^\circ \) at \( f_c \pm 1.2 \text{ kHz} \) (i.e. \( \Delta \phi \leq 6^\circ \pm \Delta \phi_c \))
   2.2.6. Reflection loss (at \( f_c \pm 1.35 \text{ kHz} \)):
   \( \geq 9.55 \text{ dB} \) (i.e. VSWR < 2)
   2.2.7. Insertion loss:
   \( \leq 5.0 \text{ dB} \)
   (measured on smallest attenuation in pass band)

2.3. **Stop band**

   2.3.1. \( f_o \pm 7.5 \text{ kHz} \)
   \( \geq 60 \text{ dB} \)
   2.3.2. Alternate attenuation:
   \( \geq 80 \text{ dB} \) (except spurious)

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

3. **Marking:**
   Manufacturer, date code
   MQF 10.7-0300/11

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

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Edited by: ____________________________
Date: ____________________________
Name: ____________________________