Specification for monolithic crystal filter: **MQF 45.0 - 1000/08**

1. **General**
   1.1. Package: 4 x GH9S1 (each filter consists of 4 matched duals in GH9S1 package)

2. **Electric values**
   2.1. Nominal centre frequency fo: 45.0 MHz

2.2. **Pass band**
   2.2.1. Bandwidth between 6 dB - frequencies: \( \geq \text{fo} \pm 5.0 \text{ kHz} \)
   2.2.2. Typical bandwidth between 3 dB - frequencies: approximately \( \text{fo} \pm 5.35 \text{ kHz} \)
   2.2.3. Ripple: \( \leq 1.0 \text{ dB at } \text{fo} \pm 2.5 \text{ kHz} \)
   2.2.4. Insertion loss: \( \leq 6.5 \text{ dB} \)
      (measured on smallest attenuation in pass band)

2.3. **Stop band**
   2.3.1. \( \text{fo} \pm 10 \text{ kHz} \): \( \geq 30 \text{ dB} \)
   2.3.2. \( \text{fo} \pm 20 \text{ kHz} \): \( \geq 85 \text{ dB} \)
   2.3.3. \( \text{fo} \pm 910 \text{ kHz} \): \( \geq 85 \text{ dB} \)

2.4. Terminating impedance (input and output): \( 300 \Omega \parallel 8.5 \text{ pF} \)

2.4.1. Coupling capacitance: \( \text{Ck1, Ck3} \) 22.7 pF \( \text{Ck2} \) 23.8 pF

3. **Marking:**
   manufacturer, date code
   45.0-1000/08

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

---

Edited by: _______________________________ date: ______________________________ name: ______________________________