Specification for crystal filter: **Q F 4 5 . 0 - 2 0 0 0 0 / 0 4**

1. **General**
   1.1. **Package**
   
   1.2. **Type name:** QF 45.0-20000/04
   
   1.3. **Number of poles:** 4
   
   1.4. **Operating temperature range:** -20°C to +70°C
   
   1.5. **Storage temperature range:** -35°C to +85°C

2. **Electric values**
   
   2.1. **Nominal centre frequency fo:** 45.0 MHz
   
   2.2. **Pass band**
   
   2.2.1. **Bandwidth between 3 dB - frequencies:** ≥ fo ± 100 kHz
   
   2.2.2. **Ripple:** ≤ 2.0 dB at fo ± 75 kHz
   
   2.2.3. **Insertion loss:** ≤ 3.5 dB
   (measured on smallest attenuation in pass band)

2.3. **Stop band**
   
   2.3.1. **fo - 180 kHz** ≥ 20 dB
   
   2.3.2. **fo + 190 kHz** ≥ 20 dB
   
   2.3.3. **fo - 900 kHz** ≥ 70 dB

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

2.5. **Input power level:** < 1 dBm

3. **Marking:**

   manufacturer, date code

   QF 45.0-20000/04

4. **Environment conditions:**

   Corresponding to Vectron standard CF001

Edited by: ________________________________ date: ________________________________ name: ________________________________