Specification for monolithic crystal filter: **MQF 45.0 - 3000/15**

1. **General**
   1.1. **Package:**

   ![Package Diagram]

   - Bottom view
   - Package GM3
   - Dimensions:
     - Max 25.1 mm
     - Min 4 mm
   - Diam 0.8 mm

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1.2. **Type name:** MQF 45.0-3000/15
1.3. **Number of poles:** 8
1.4. **Operating temperature range:** -10°C to +55°C
1.5. **Storage temperature range:** -25°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:** \( \geq fo \pm 15 \text{ kHz} \)

   2.2.2. **Ripple:** \( \leq 2.0 \text{ dB at } fo \pm 10 \text{ kHz} \)

   2.2.3. **Insertion loss:** \( \leq 3.5 \text{ dB} \)

   (measured on smallest attenuation in pass band)

2.3. **Stop band**

   2.3.1. **fo \pm 35 kHz:** \( \geq 70 \text{ dB} \)

   2.3.2. **fo \pm 50 kHz:** \( \geq 90 \text{ dB} \)

   2.3.3. **Alternate attenuation (fo\pm 50 kHz.....\pm 500 kHz):** \( \geq 90 \text{ dB} \)

   2.3.4. **Spurious responses:** \( > 60 \text{ dB} \)

2.4. **Terminating impedance (input and output):** \( 470 \Omega // 15 \text{ pF} \)

3. **Marking:**

   - Manufacturer, date code
   - MQF 45.0-3000/15
   - OEM marking on demand

4. **Environment conditions:**

   Corresponding to Vectron standard CF001

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Edited by: ___________________________ date: ___________________________ name: ___________________________