Specification for monolithic crystal filter: MQF 10.7-2200/15

1. General

1.1. Package: 3 x GH3SC (each filter consists of 3 pcs. of matched HC49/U-duals)

1.2. Type name: MQF 10.7-2200/15

1.3. Number of poles: 6

1.4. Operating temperature range: -40°C to +85°C

1.5. Storage temperature range: -55°C to +105°C

2. Electric values

2.1. Nominal centre frequency fo: 10.7 MHz
2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies: \( \geq f_0 \pm 11.0 \text{ kHz} \)

2.2.2. Ripple (at \( f_0 \pm 8.0 \text{ kHz} \)): \( \leq 1.0 \text{ dB} \)

2.2.3. Insertion loss: \( \leq 2.0 \text{ dB} \)

( measured on smallest attenuation in pass band )

2.3. **Stop band**

2.3.1. \( f_0 \pm 23 \text{ kHz} \): \( \geq 30 \text{ dB} \)

2.3.2. \( f_0 \pm 32 \text{ kHz} \): \( \geq 60 \text{ dB} \)

2.3.3. \( f_0 \pm 45 \text{ kHz} \): \( \geq 80 \text{ dB} \)

2.3.4. Alternate attenuation: \( \geq 80 \text{ dB} \)

2.3.5. Spurious responses: \( \geq 60 \text{ dB} \)

2.4. Terminating impedance (input and output): \( 4800 \Omega \parallel -0.5 \text{ pF} \)

2.4.1. Coupling capacitances \( C_c1, C_c2 \): \( 2.0 \text{ pF (including all stray capacitances)} \)

3. **Marking:**

   manufacturer, date code
   MQF 10.7-2200/15

4. Environment conditions:

   Vectron MIL standard

5. Reflow soldering conditions:

   Reflow soldering: three times max.

   ![Graph showing reflow soldering temperature and time]

   - 260°C max.
   - Max 300s
   - 30...150s
   - 10...30s

6. **Packing:**

   T.B.D. (ESD-protected)

---

Edited by: _____________________________
Date: _____________________________
Name: _____________________________