Specification for monolithic crystal filter: \textbf{MQF 45.0 - 1500/10}

1. General

1.1. Package: 2 x GH 9 (each filter consist of a matched pair of two GH9 duals)

1.2. Type name: MQF 45.0-1500/10

1.3. Number of poles: 4

1.4. Operating temperature range: -30°C to +90°C

1.5. Storage temperature range: -55°C to +90°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: \( \geq \text{fo} \pm 7.5 \text{ kHz} \)

2.2.2. Ripple: \( \leq 1.0 \text{ dB at fo} \pm 5.0 \text{ kHz} \)

2.2.3. Insertion loss: \( \leq 3.0 \text{ dB} \) (measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. fo \pm 25 kHz \( \geq 30 \text{ dB} \)

2.3.2. fo - 910 kHz \( \geq 90 \text{ dB} \)

2.4. Terminating impedance R/C (input and output): 650 \( \Omega \) // 3.0 pF

2.4.1. Coupling capacitance (Cc): 10 pF \( \pm 10\% \)

3. Others

4. Marking: manufacturer, date code 45.0-1500/10

5. Environment conditions: Corresponding to Vectron standard CF001