Specification for monolithic crystal filter  

MQF 70.0-1500/07

1. General

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

1.2. Type name: MQF 70.0-1500/07

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: 70.0 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: \( \geq f_0 \pm 7.5 \text{ kHz} \)

2.2.2. Ripple: \( \leq 1.0 \text{ dB at } f_0 \pm 6.0 \text{ kHz} \)

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

( measured on smallest attenuation in pass band )

2.3. Stop band

2.3.1. \( f_0 \pm 30 \text{ kHz} \) \( \geq 40 \text{ dB} \)

2.3.2. \( f_0 \pm 100 \text{ kHz} \) \( \geq 70 \text{ dB} \)

2.3.3. Alternate attenuation: \( \geq 70 \text{ dB} \)

2.3.4. Spurious responses: \( \geq 35 \text{ dB} \)

2.4. Terminating impedance (input and output): 3000 \( \Omega \) // -0.5 pF

2.4.1. Coupling capacitance \( C_c \): -0.5 pF

3. Marking: manufacturer, date code 70.0-1500/07

4. Environment conditions: Corresponding to Vectron standard CF001

---

Edited by: [Name]

Date: [Date]

Name: [Name]