Specification for monolithic crystal filter

MQF 42.4375-3600/04

1. General

1.1. Package:

1.2. Type name: MQF 42.4375-3600/04

1.3. Number of poles: 8

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

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

1.6. Storage temperature range: -55°C to +125°C

2. Electric values

2.1. Nominal centre frequency fo: 42.4375 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: \( \geq f_0 \pm 18 \text{ kHz} \)

2.2.2. Ripple: \( \leq 1.0 \text{ dB at } f_0 \pm 12.5 \text{ kHz} \)

2.2.3. Group delay distortion: \( \leq 50 \mu\text{s at } f_0 \pm 12.5 \text{ kHz} \)

2.2.4. Insertion loss: \( \leq 3.0 \text{ dB} \)

( measured on smallest attenuation in pass band )

2.3. Stop band

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

2.3.2. \( f_0 \pm 50 \text{ kHz} \) \( \geq 60 \text{ dB} \)

2.3.3. \( f_0 \pm 0.1 \text{ MHz} \ldots 10 \text{ MHz} \) \( \geq 80 \text{ dB ( except spurious )} \)

2.3.4. Spurious responses at \( f_0 \pm 150 \text{ kHz} \ldots +250 \text{ kHz} \) \( \geq 60 \text{ dB} \)

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

3. Marking:

manufacturer, date code
MQF 42.4375-3600/04
OEM marking on demand

4. Environment conditions:

Corresponding to Vectron standard CF010

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Edited by: ___________________________ date: ________________ name: ___________________________