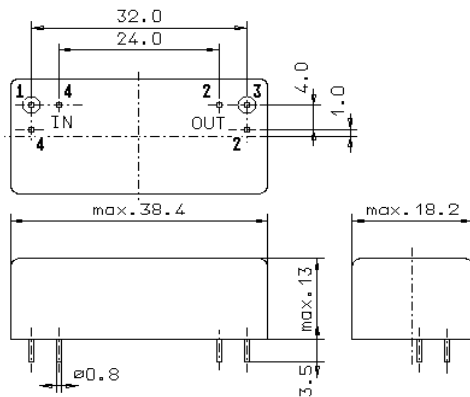


Specification for monolithic crystal filter:

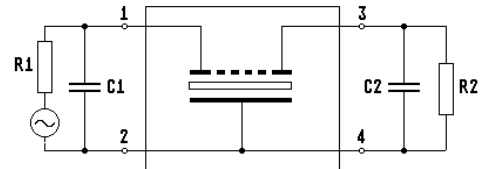
MQF 21.4-0250/04V0

1. General

1.1. Package:



GM17.1



- 1.2. Type name: MQF 21.4-0250/04V0
- 1.3. Number of poles: 8
- 1.4. Operable temperature range: -20°C to +85°C
- 1.5. Operating temperature range: -10°C to +70°C
- 1.6. Storage temperature range: -40°C to +90°C

2. Electric values

- 2.1. Nominal centre frequency f_0 : 21.4 MHz
- 2.2. **Pass band**
 - 2.2.1. Centre frequency f_c (at +25°C): 21.4 MHz \pm 200 Hz
 - 2.2.2. Bandwidth between 3 dB - frequencies: $\geq f_c \pm 1.25$ kHz
 - 2.2.3. Ripple (at $f_c \pm 1.0$ kHz): ≤ 1.5 dB
 - 2.2.4. Insertion loss: ≤ 7.0 dB
(measured on smallest attenuation in pass band)
 - 2.2.5. Reflection loss (at $f_c \pm 1.0$ kHz): ≥ 10 dB
- 2.3. **Stop band**
 - 2.3.1. $f_c \pm 3.5$ kHz ≥ 60 dB
 - 2.3.2. $f_c \pm 25$ kHz..... ± 5 MHz ≥ 90 dB
 - 2.3.3. Spurious responses: ≥ 85 dB
- 2.4. Terminating impedance (input and output): 50 Ω // 0 pF
- 2.5. 3-rd order out band Intermodulation (IP3 > +27 dBm)
 - frequency 1: 21.390 MHz / 21.395 MHz
 - frequency 2: 21.410 MHz / 21.405 MHz
 - input power: 0 dBm
 - 3rd order distortion (measured at 21.40 MHz): > 60 dB (down from either of the two test tones)

- 3. Marking: OUT manufacturer IN
date code
MQF 21.4-0250/04V0
21.4 MHz / B: 2.5 kHz

- 4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: _____ date: _____ name: _____