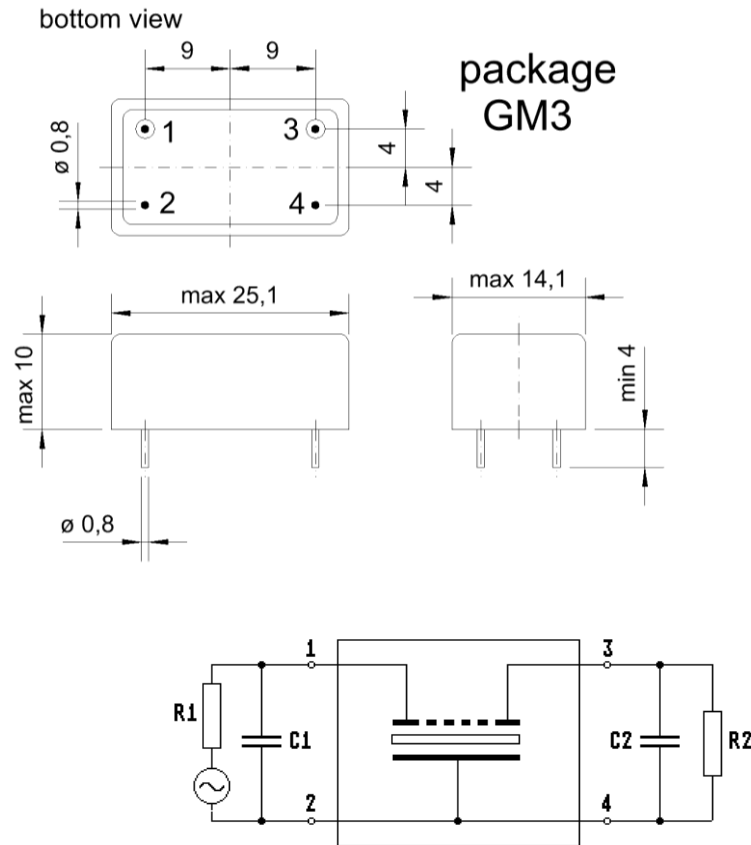


Specification for monolithic crystal filter: **MQF 40.048-4800/07**

1. General

1.1. Package:



- | | |
|-----------------------------------|--------------------|
| 1.2. Type name: | MQF 40.048-4800/07 |
| 1.3. Number of poles: | 8 |
| 1.4. Operating temperature range: | -40°C to +85°C |
| 1.5. Storage temperature range: | -55°C to +90°C |

2. Electric values

2.1. Nominal centre frequency f_0 : 40.048 MHz

2.2. Pass band

- | | |
|---|--------------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies: | $> f_0 \pm 24.0$ kHz |
| 2.2.2. Ripple in pass band $f_0 \pm 24.0$ kHz: | < 1.5 dB (peak to peak) |
| 2.2.3. Insertion loss:
(measured on smallest attenuation in pass band) | < 3.0 dB |
| 2.2.4. Return loss (In / Out) within $f_0 \pm 24.0$ kHz: | > 11 dB |

2.3. Stop band

2.3.1. $f_0 \pm 48$ kHz: > 50 dB

2.3.2. $f_0 \pm 70$ kHz: > 80 dB

2.3.3. Alternate attenuation: > 90 dB (except spurious)

2.4. Maximum input power level: 0 / +20 (working / non-damaged)

2.5. Terminating impedance R//C (input and output): $50 \Omega // 0$ pF

2.6. 3rd order in band intermodulation with test tones at $f_0 \pm 1.0$ kHz and test tone power level of 0 dBm at pin 3 (output). The 3rd order distortion at $f_0 \pm 3.0$ kHz to be > 50 dB down from both 0 dBm tones related to pin 1.

2.7. 3rd order out band intermodulation with test tones at $f_0 \pm 30$ kHz and $f_0 \pm 60$ kHz and test tone power level of -6 dBm at pin 1 (input). The 3rd order distortion at f_0 to be > 71 dB down from both -6 dBm tones related to pin 3.

3. Marking:

top view



4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: _____ date: _____ name: _____