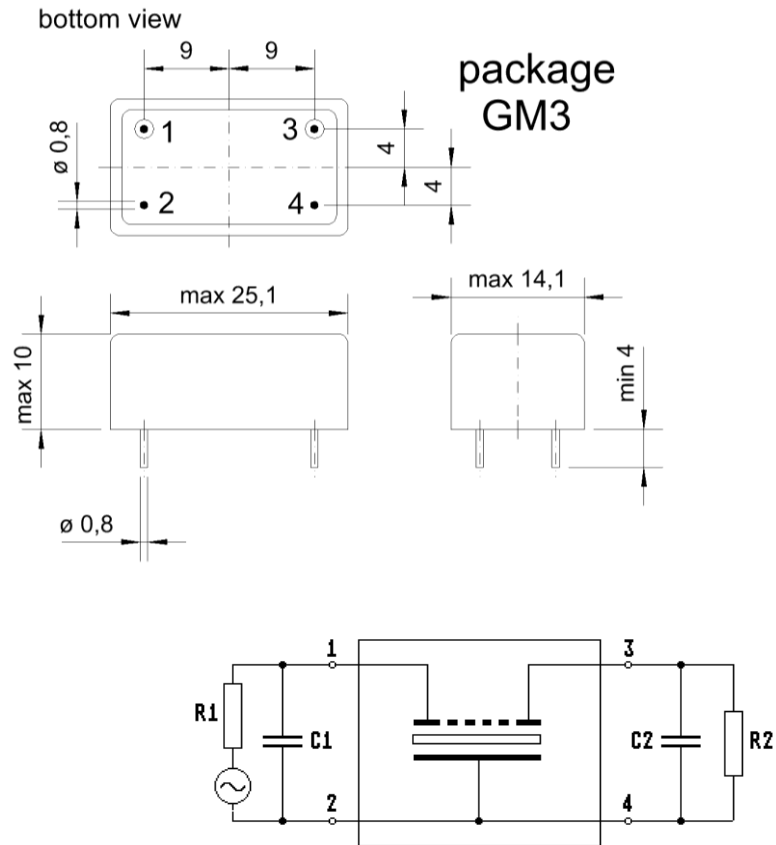


Specification for monolithic crystal filter: **MQF 40.048-2500/09**

1. General

1.1. Package:



- | | |
|-----------------------------------|--------------------|
| 1.2. Type name: | MQF 40.048-2500/09 |
| 1.3. Number of poles: | 6 |
| 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: | $> f_0 \pm 12.5$ kHz |
| 2.2.2. Ripple in pass band: | < 1.0 dB (peak to peak) |
| 2.2.3. Insertion loss:
(measured on smallest attenuation in pass band) | < 3.0 dB |

2.3. Stop band

- 2.3.1. $f_0 \pm 45$ kHz: > 60 dB
- 2.3.2. $f_0 \pm 55$ kHz: > 70 dB
- 2.3.3. $f_0 \pm 70$ kHz: > 90 dB
- 2.3.4. at 39.952 MHz > 100 dB

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

2.3.5. Spurious responses: > 40 dB

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

2.5. Terminating impedance R//C (input and output): 50 Ω // 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: manufacturer, date code
MQF 40.048-2500/09

4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: date: _____ name: _____