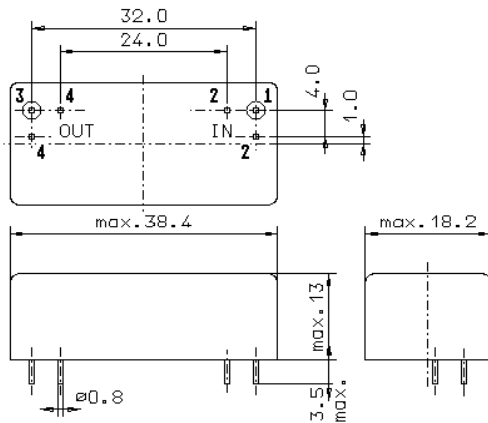


Specification for monolithic crystal filter

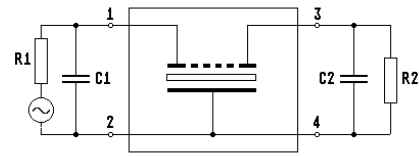
MQF 70.0-0660/03

1. General

1.1. Package:



GM17



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 70.0-0660/03 |
| 1.3. Number of poles: | 8 |
| 1.4. Operating temperature range: | -30°C to +75°C |
| 1.5. Storage temperature range: | -55°C to +85°C |

2. Electric values

- | | |
|------------------------------------------------------|-------------------------------------------------------------------|
| 2.1. Nominal centre frequency f_0 : | 70.0 MHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 2 dB - frequencies: | $> f_0 \pm 3.3$ kHz |
| 2.2.2. Pass band ripple: | < 2.0 dB peak to valley |
| 2.2.3. Group delay distortion: | < 150 μ s at $f_0 \pm 3.3$ kHz |
| 2.2.4. Insertion loss: | < 6.0 dB
(measured on smallest attenuation in pass band) |
| 2.3. Stop band | |
| 2.3.1. $f_0 \pm 17.5$ kHz | > 65 dB |
| 2.3.2. $f_0 \pm 25$ kHz..... $f_0 \pm 10$ MHz | > 80 dB (except spurious) |
| 2.3.3. Spurious responses: | > 50 dB |
| 2.4. Terminating impedance (input and output): | $50 \Omega // 0$ pF |
| 2.5. Intermodulation | |
| 2.5.1. Input 3 rd order intercept point (IIP3): | $> +32$ dBm (out of band performance) |
| Test tones frequencies : | $f_0 \pm 50$ kHz, $f_0 \pm 100$ kHz |
| Input power level: | -10 dBm |
| 3rd order distortion (measured at f_0) | > 84 dB down + insertion loss (> 89 dB at worst) |
| 2.5.2. Input 3 rd order intercept point (IIP3): | $> +10$ dBm (in band performance) |
| Test tones frequencies : | $f_0 \pm 2.0$ kHz |
| Input power level: | -10 dBm |
| 3rd order distortion (measured at $f_0 \pm 6$ kHz) | > 40 dB down from either of the
two -10 dBm input test tones |
| 3. Marking: | manufacturer, date code
MQF 70.0-0660/03 |
| 4. Environment conditions: | Corresponding to Vectron MIL-standard and
MIL - STD 202F |

Edited by: _____ date: _____ name: _____