

Specification for monolithic crystal filter: **MQF 30.0-0600/07**

1. General

1.1. Package:

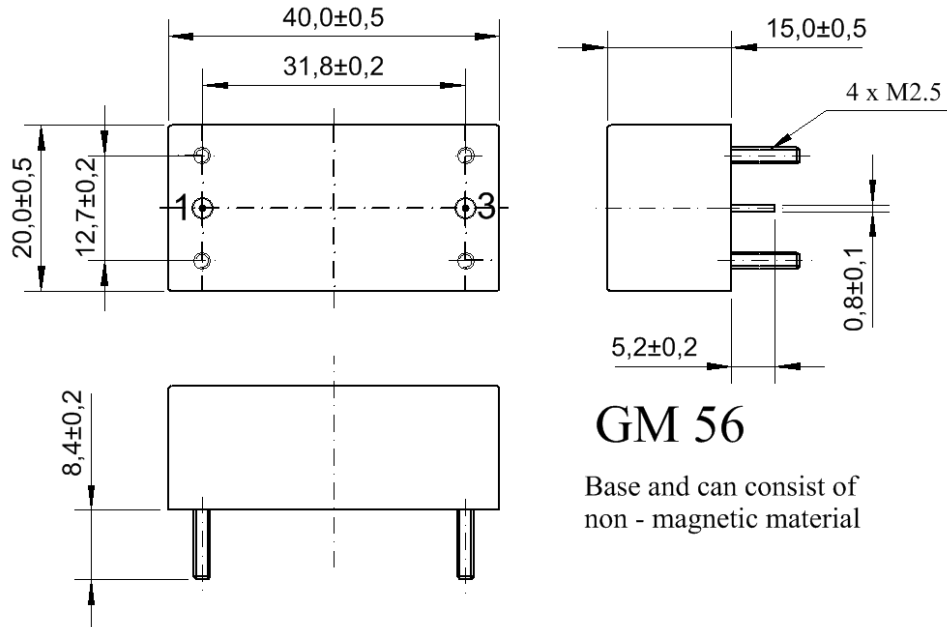
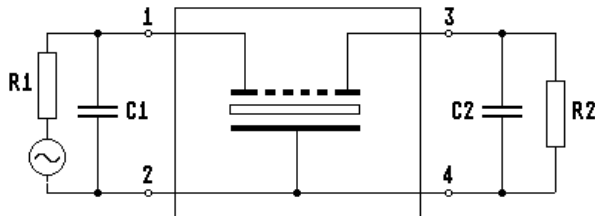


Plate materials: Ni / Au
Ni: 4.0-8.0 μm
Au: 0.05-0.1 μm



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 30.0-0600/07 |
| 1.3. Number of poles: | 4 |
| 1.4. Operating temperature range: | -20°C to +70°C |
| 1.5. Storage temperature range: | -30°C to +85°C |
| 1.6. Weight: | 31g \pm 10% |

2. Electric values

- | | |
|---------------------------------------|-----------------------|
| 2.1. Nominal centre frequency f_0 : | 30.0 MHz |
| 2.2. Centre frequency f_c at +25°C: | 30.0 MHz \pm 350 Hz |

2.2. Pass band

- 2.2.1. Bandwidth between 3 dB - frequencies: $> f_c \pm 3.0 \text{ kHz}$
- 2.2.2. Bandwidth between 1 dB - frequencies: $> f_c \pm 1.5 \text{ kHz}$
- 2.2.3. Ripple (peak to peak) $< 1.0 \text{ dB}$ within $f_c \pm 1.2 \text{ kHz}$
- 2.2.4. Insertion loss: $< 4.0 \text{ dB}$
(measured on smallest attenuation in pass band)

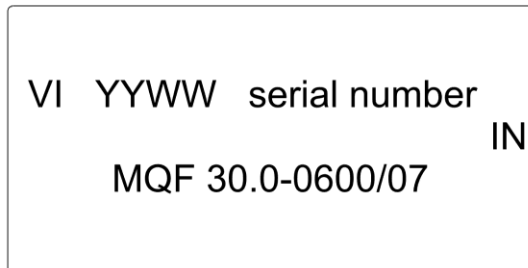
2.3. Stop band

- 2.3.1. $f_c \pm 10 \text{ kHz}$ $> 30 \text{ dB}$
- 2.3.2. $f_c \pm 15 \text{ kHz}$ $> 50 \text{ dB}$
- 2.3.3. $f_c \pm 28 \text{ kHz}$ $> 70 \text{ dB}$
- 2.3.4. Alternate attenuation ($f_c \pm 1.0 \dots 10 \text{ MHz}$): $> 70 \text{ dB}$
- 2.3.5. Spurious responses: $> 50 \text{ dB}$

- 2.4. Terminating impedance (input and output): $50 \Omega // 0 \text{ pF}$
- 2.5. Nominal / maximum input power level: $0 / +20 \text{ dBm}$

3. Marking:

Top view



- 4. Environment conditions according to Vectron MIL standard
- 5. Mean time between failures (MTBF) corr. to IEC 60050 (191) $> 12 \text{ years}$

Edited by: _____ date: _____ name: _____