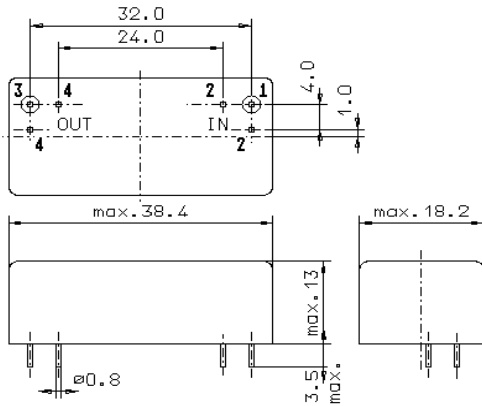


Specification for monolithic crystal filter:

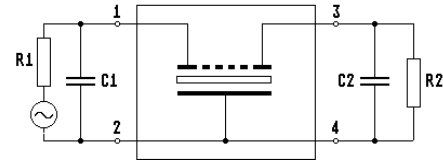
MQF 10.7-2000/10

1. General

1.1. Package:



GM17



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 10.7-2000/10 |
| 1.3. Number of poles: | 10 |
| 1.4. Operating temperature range: | -40°C to +80°C |
| 1.5. Storage temperature range: | -55°C to +85°C |

2. Electric values

- | | |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency f_0 : | 10.7 MHz |
|---------------------------------------|----------|

2.2. Pass band

- | | |
|---|-------------------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies: | $\geq f_0 \pm 10$ kHz |
| 2.2.2. Ripple: | ≤ 1 dB at $f_0 \pm 6.0$ kHz |
| 2.2.3. Group delay distortion: | < 35 μ s at $f_0 \pm 7.0$ kHz |
| 2.2.4. Insertion loss: | ≤ 4.0 dB |
| (measured on smallest attenuation in pass band) | |
| 2.2.5. Return loss at $f_0 \pm 8$ kHz: | > 10 dB |

2.3. Stop band

- | | |
|---|----------------------------------|
| 2.3.1. $f_0 \pm 20$ kHz | ≥ 60 dB |
| 2.3.2. $f_0 \pm 40$ kHz | ≥ 90 dB |
| 2.3.3. $f_0 \pm 40$ kHz..... ± 10 MHz | ≥ 90 dB (except spurious) |
| 2.3.4. Spurious responses at $f_0 \pm 40$ kHz..... ± 10 MHz | ≥ 80 dB |

- | | |
|--|---------------------|
| 2.4. Terminating impedance (input and output): | $50 \Omega // 0$ pF |
| 2.5. Input power level: | ≤ 10 mW |

2.6. Intermodulation (out band)

- | | |
|--------------------------------------|------------------|
| frequency 1: | $f_0 \pm 30$ kHz |
| frequency 2: | $f_0 \pm 60$ kHz |
| input power level at pin 1(input): | -10 dBm |
| IM: | ≥ 80 dB |

- | | |
|-------------|---|
| 3. Marking: | manufacturer, date code
MQF 10.7-2000/10 |
|-------------|---|

- | | |
|----------------------------|---|
| 4. Environment conditions: | Corresponding to Vectron standard CF001 |
|----------------------------|---|

Edited by: _____ date: _____ name: _____