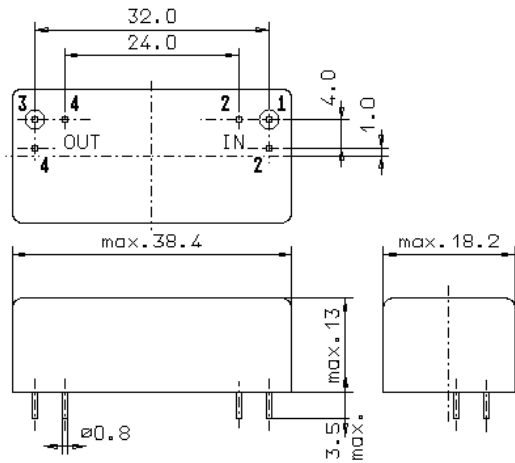


Specification for monolithic crystal filter:

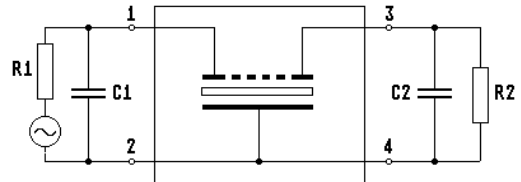
MQF 21.4-2400/11

1. General

1.1. Package:



GM17



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 21.4-2400/11 |
| 1.3. Number of poles: | 12 |
| 1.4. Operating temperature range: | -20°C to +70°C |
| 1.5. Storage temperature range: | -35°C to +85°C |

2. Electric values

- | | |
|-----------------------------------|----------|
| 2.1. Nominal centre frequency fo: | 21.4 MHz |
|-----------------------------------|----------|

2.2. Pass band

- | | |
|---|--|
| 2.2.1. Bandwidth between 3 dB - frequencies: | $\geq f_o \pm 12.0$ kHz |
| 2.2.2. Ripple: | ≤ 2 dB at $f_o \pm 9.6$ kHz |
| 2.2.3. Group delay distortion: | ≤ 40 μ s at $f_o \pm 5.0$ kHz |
| 2.2.4. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 3.5 dB |

2.3. Stop band

- | | |
|--|--|
| 2.3.1. $f_o \pm 20$ kHz | ≥ 70 dB |
| 2.3.2. $f_o \pm 25$ kHz | ≥ 80 dB |
| 2.3.3. $f_o \pm 30$ kHz..... ± 500 kHz | ≥ 90 dB |
| 2.3.4. Spurious responses: | ≥ 60 dB at $f_o \pm 150$ kHz..... ± 200 kHz |

- | | |
|--|-----------------------|
| 2.4. Terminating impedance (input and output): | $470 \Omega // 15$ pF |
|--|-----------------------|

- | | |
|-------------|---|
| 3. Marking: | manufacturer, date code
MQF 21.4-2400/11 |
|-------------|---|

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

Edited by: _____ date: _____ name: _____