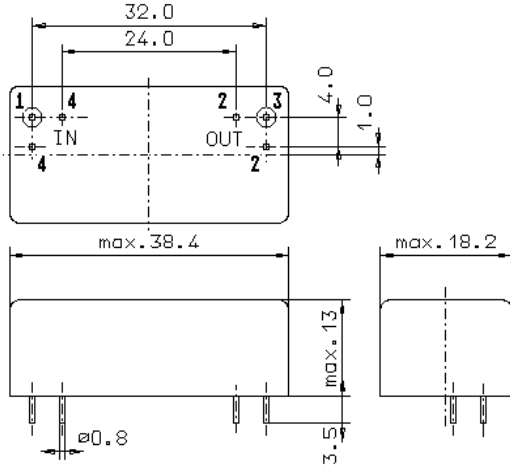


Specification for crystal filter:

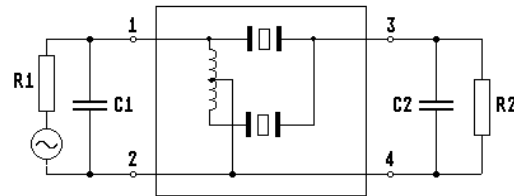
QF 21.4-20000/09

1. General

1.1. Package:



GM17.1



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | QF 21.4-20000/09 |
| 1.3. Number of poles: | 6 |
| 1.4. Operating temperature range: | -30°C to +70°C |
| 1.5. Storage temperature range: | -40°C to +90°C |

2. Electric values

- | | |
|---|--------------------------------------|
| 2.1. Nominal centre frequency fo: | 21.4 MHz |
| 2.2. Pass band | |
| 2.2.1. Centre frequency fc: | 21.4 MHz ± 7.5 kHz |
| 2.2.2. Bandwidth between 3 dB - frequencies: | > fo ± 100 kHz |
| 2.2.3. Ripple: | < 1.5 dB at fo ± 80 kHz |
| 2.2.4. Insertion loss: | < 8.0 dB |
| (measured on smallest attenuation in pass band) | |
| 2.3. Stop band | |
| 2.3.1. fo ± 400 kHz | ≥ 60 dB (except spurious) |
| 2.3.2. fo ± 2.5 MHz..... ± 5 MHz: | ≥ 90 dB (except spurious) |
| 2.3.3. Alternate attenuation | > 80 dB (except spurious) |
| 2.3.4. Spurious responses: | > 45 dB at fo+400 kHz.....fo+5.0 MHz |
| 2.4. Terminating impedance (input and output): | 50 Ω // 0 pF |
| 2.5. Intermodulation | |
| frequency 1: | 21.60 MHz / 21.80 MHz |
| frequency 2: | 21.20 MHz / 21.00 MHz |
| input power: | 0 dBm |
| IM: | > 60 dB |

- | | |
|-------------|---|
| 3. Marking: | manufacturer, date code
QF 21.4-20000/09 |
|-------------|---|

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

Edited by: _____ date: _____ name: _____