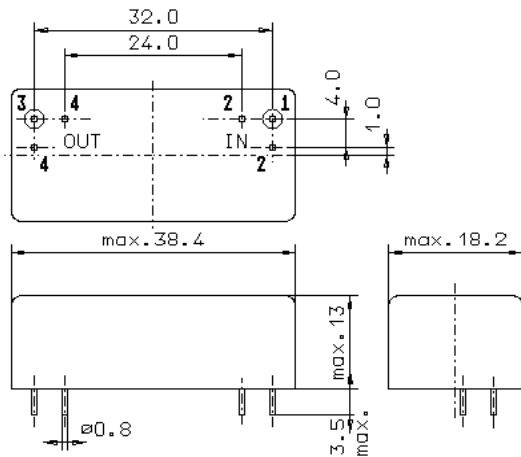


Specification for crystal filter:

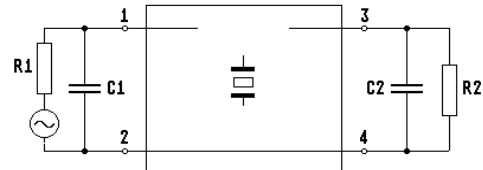
QF 21.4-0030/04

1. General

1.1. Package:



GM17



- | | |
|-----------------------------------|-----------------|
| 1.2. Type name: | QF 21.4-0030/04 |
| 1.3. Number of poles: | 4 |
| 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 f_0 : | 21.4 MHz |
|---------------------------------------|----------|

2.2. Pass band

- | | |
|---|--|
| 2.2.1. Centre frequency f_c : | 21.4 MHz \pm 500 Hz |
| 2.2.2. Bandwidth between 3 dB - frequencies: | $\geq f_c \pm 135$ Hz (at 23°C \pm 5°C)
$\leq f_c \pm 165$ Hz (at 23°C \pm 5°C) |
| 2.2.3. Ripple: | Gaussian |
| 2.2.4. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 15 dB |

2.3. Stop band

- | | |
|-------------------------------|----------------------------------|
| 2.3.1. $f_0 \pm 1$ kHz | ≥ 40 dB |
| 2.3.2. Alternate attenuation: | ≥ 80 dB (except spurious) |
| 2.3.3. Spurious responses: | ≥ 70 dB |

- | | |
|--|-----------------------|
| 2.4. Terminating impedance (input and output): | 500 Ω // 10 pF |
|--|-----------------------|

- | | |
|-------------|--|
| 3. Marking: | manufacturer, date code
QF 21.4-0030/04 |
|-------------|--|

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

Edited by: _____ date: _____ name: _____