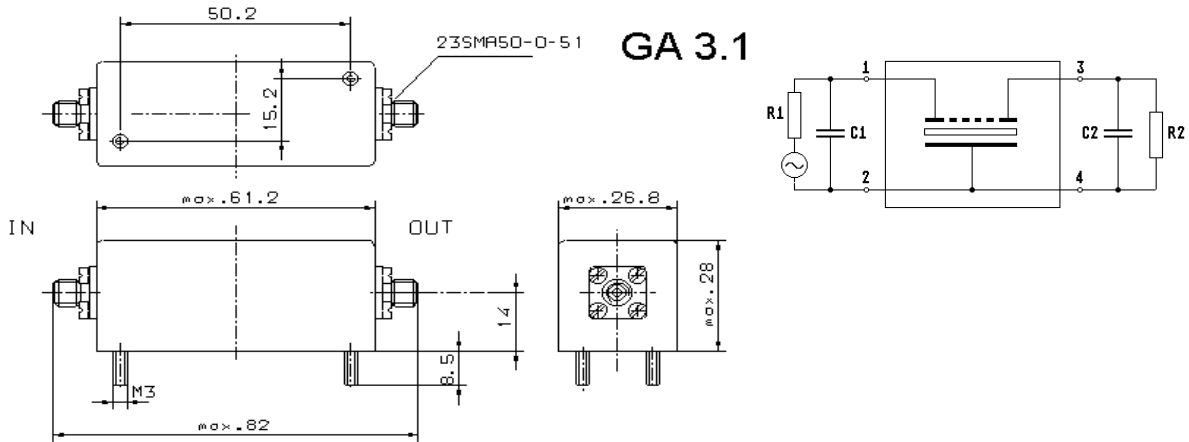


Specification for crystal filter:

QF 60.0-4000/02

1. General

1.1. Package:



- | | |
|-----------------------------------|-----------------|
| 1.2. Type name: | QF 60.0-4000/02 |
| 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 : | 60.0 MHz |
|---------------------------------------|----------|

2.2. Pass band

- | | |
|---|--|
| 2.2.1. Bandwidth between 6 dB - frequencies: | $\geq f_0 \pm 20$ kHz |
| 2.2.2. Ripple: | Gaussian |
| 2.2.3. Group delay distortion: | $< 2 \mu\text{s}$ at $f_0 \pm 20$ kHz and 25°C |
| 2.2.4. Group delay: | $< 18 \mu\text{s}$ at f_0 |
| 2.2.5. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 12 dB |

2.3. Stop band

- | | |
|--|----------------------------------|
| 2.3.1. $f_0 - 200$ kHz | ≥ 40 dB |
| 2.3.2. $f_0 + 250$ kHz | ≥ 40 dB (except spurious) |
| 2.3.3. Alternate attenuation: | ≥ 40 dB |
| 2.4. Terminating impedance (input and output): | $50 \Omega // 0$ pF |

- | | |
|-------------|--|
| 3. Marking: | manufacturer, date code
QF 60.0-4000/02 |
|-------------|--|

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

Edited by: _____ date: _____ name: _____