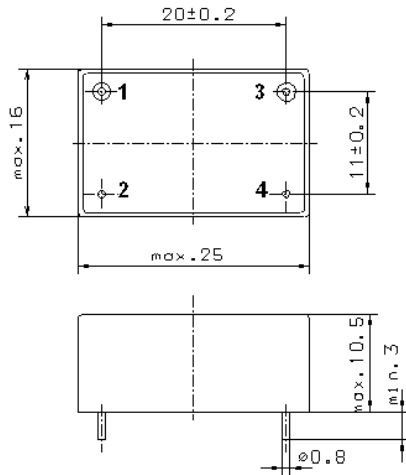


Specification for crystal filter

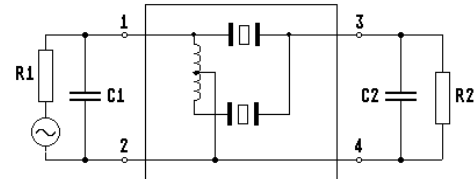
QF 100.896-1000/06

1. General

1.1. Package:



GM47.1



- | | |
|-----------------------------------|--------------------|
| 1.2. Type name: | QF 100.896-1000/06 |
| 1.3. Number of poles: | 2 |
| 1.4. Operating temperature range: | -40°C to +85°C |
| 1.5. Storage temperature range: | -45°C to +85°C |

2. Electric values

- | | |
|--|---|
| 2.1. Nominal centre frequency fo: | 100.896 MHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 0.6 dB - frequencies: | > fo ± 5.0 kHz |
| 2.2.2. Ripple in pass band: | < 1.0 dB peak to peak |
| 2.2.3. Differential group delay in 0.6 dB pass band: | < 15 μs |
| 2.2.4. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 4.0 dB |
| 2.3. Stop band | |
| 2.3.1. fo ± 43 kHz | > 18 dB |
| 2.3.2. fo ± 96 kHz | > 30 dB |
| 2.3.3. fo ± 192 kHz | > 43 dB (except spurious) |
| 2.3.4. Spurious responses fo+192.....+600 kHz: | > 24 dB |
| 2.4. Terminating impedance (input and output): | 50 Ω // 0 pF |
| 2.5. Maximum input power: | +3 dBm / +15 dBm (working / non-damaged) |
| 2.6. Return loss (IN / OUT) at fo: | > 14 dB |
| 3. Marking: | manufacturer, date code
QF 100.896-1000/06 |
| 4. Outband intermodulation with test tones at fo ±30 / ±60kHz and -10dBm of input power: | 3-rd order Intermodulation products at fo:
65dB down from either of the -10 dBm input test tones (IP3 > +22.5 dBm) |
| 4.1. fo ±700 / ±1800 kHz and 0dBm of input power: | 40dB down from either of the 0 dBm input test tones (IP3 > +20 dBm) |
| 5. Environment conditions: | Corresponding to Vectron MIL standard |