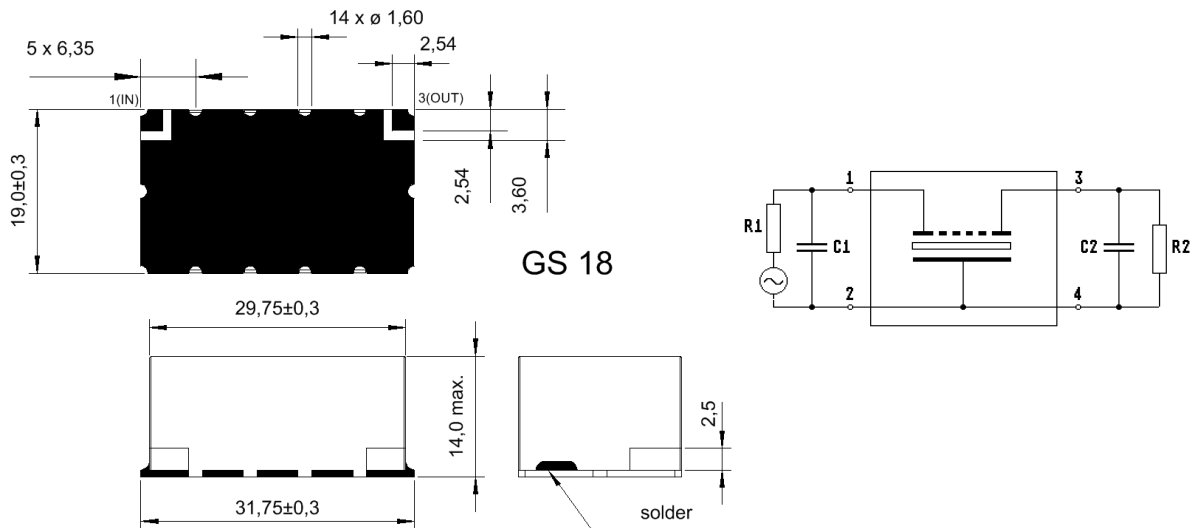


Specification for crystal filter: QF 6.990.....7.010-0280/06

1. General

1.1. Package



- | | |
|-----------------------------------|----------------------------|
| 1.2. Type name: | QF 6.990.....7.010-0280/06 |
| 1.3. Number of poles: | 5 |
| 1.4. Operating temperature range: | -30°C to +85°C |
| 1.5. Storage temperature range: | -45°C to +85°C |

2. Electric values

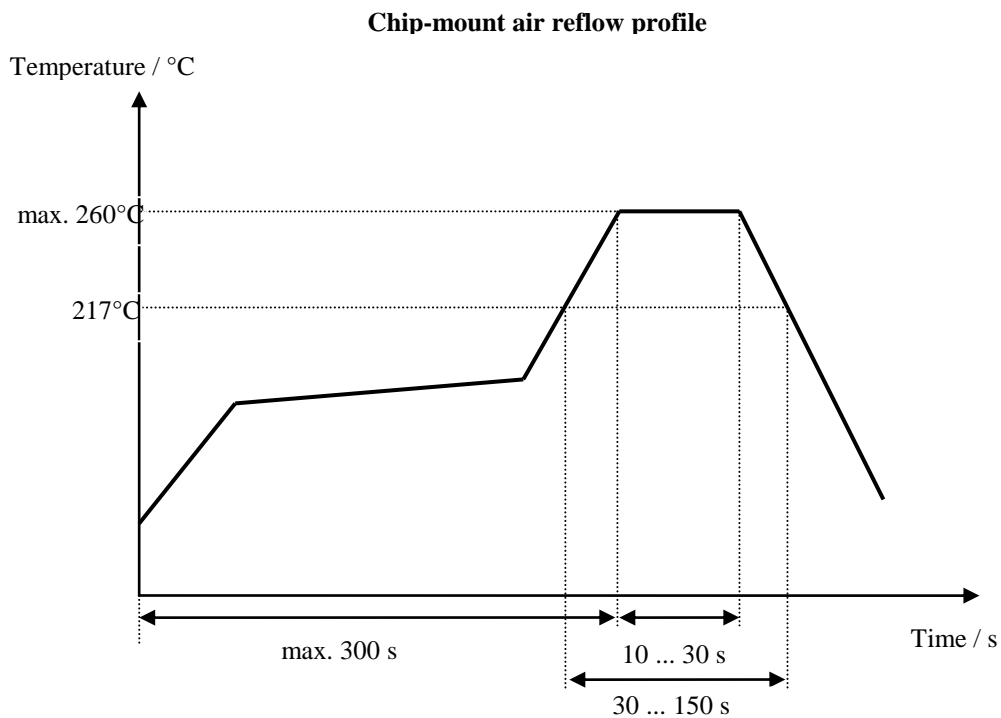
- | | |
|---|--|
| 2.1. Nominal centre frequency fo [MHz]: | 6.990 , 6.992, 6.994, 6.996, 6.998, 7.000, 7.002 7.004, 7.006, 7.008, 7.010 |
| 2.2. Pass band | |
| 2.2.1. Centre frequency fc at 25°C . 3°C: | fo . 180Hz |
| 2.2.2. Bandwidth between 3 dB - frequencies: | > fc , 1.4 kHz |
| 2.2.3. Ripple at fc . 0.8 kHz: | < 1.0 dB (< 0.5 dB peak to peak) |
| 2.2.4. Insertion loss: (measured on smallest attenuation in pass band) | < 3.0 dB |
| 2.3. Stop band | |
| 2.3.1. fc . 5.5 kHz | > 60 dB |
| 2.3.2. Alternate Attenuation | > 70 dB (except spurious) |
| 2.4. Nominal input power level | +10 dBm |
| 2.4.1. Maximal input power level | +25 dBm |
| 2.5. Terminating impedance R//C (input and output): | 50 . // 0 pF |
| 3. Marking (i. e.): | manufacturer, date code QF 6.990-0280/06 |

4. Environment conditions:

vibration: 9.8 g, 20-2000 Hz, duration 60 sec. each axis.
 shock: 40g, 11 ms, ½ sine; change of
 temperature: -30.....+70 Deg. C with exposure time rate at 5 Deg. C / min.

5. Air reflow temperature conditions

| conditions | Exposure |
|---|-----------------------------|
| average ramp-up rate (30°C to 217°C) | less than 3°C/second |
| > 100°C | between 300 and 600 seconds |
| > 150°C | between 240 and 500 seconds |
| > 217°C | between 30 and 150 seconds |
| peak temperature | max. 260°C |
| time within 5°C of peak temperature | between 10 and 30 seconds |
| cool-down rate (starting at peak temperature to 50°C) | less than 6°C / second |
| time from 30°C to peak temperature | no more than 300 seconds |



Edited by: _____ date: _____ name: _____