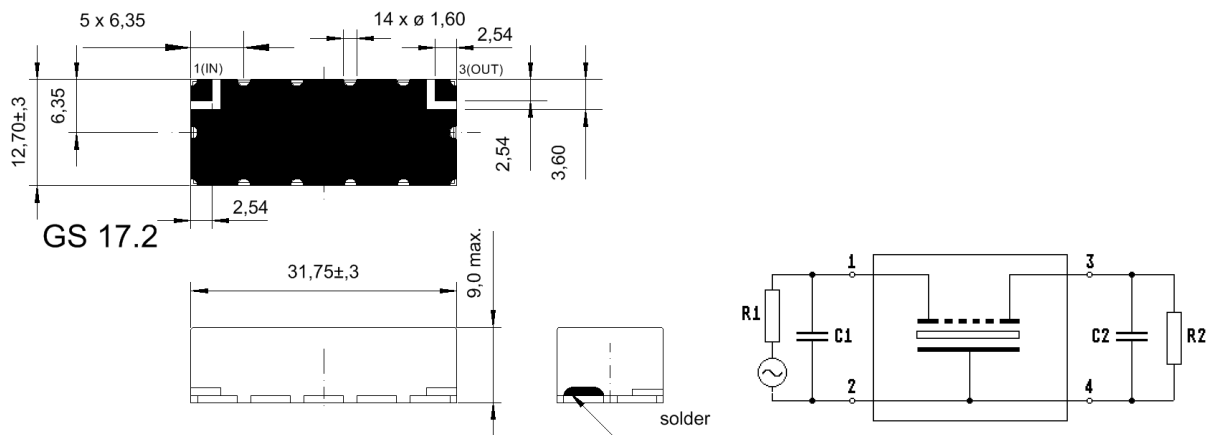


Specification for crystal filter:

QF 140.0-10000/06

1. General

1.1. Case:



- | | |
|-----------------------------------|---------------------|
| 1.2. Type name: | QF 140.0-10000/06 |
| 1.3. Number of poles: | 4, fundamental mode |
| 1.4. Operating temperature range: | -40°C to +85°C |

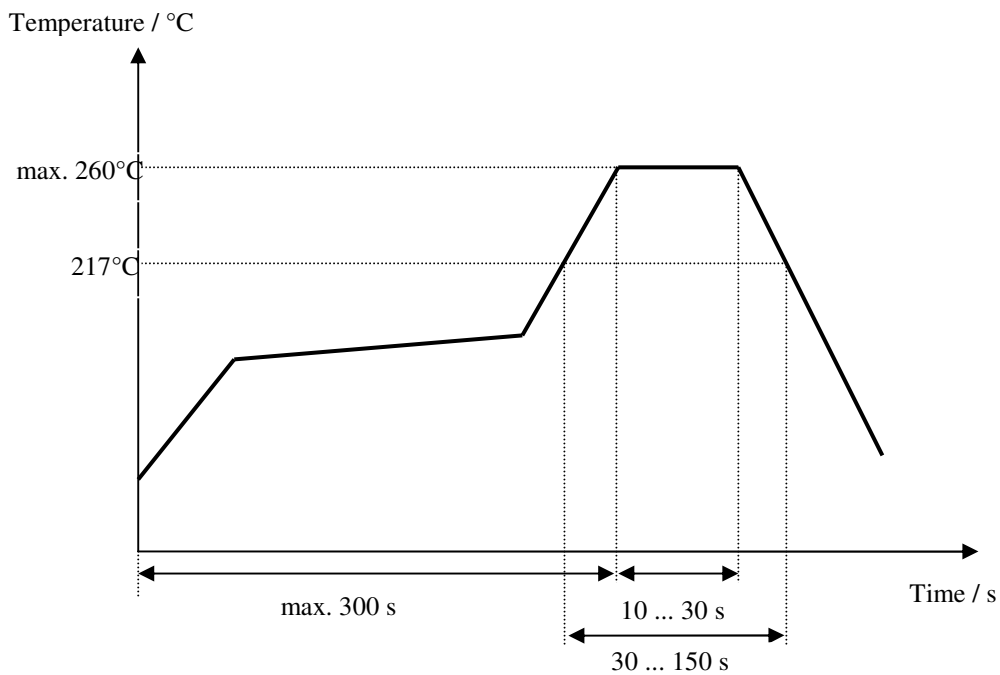
2. Electric values

- | | |
|---|--------------------------------------|
| 2.1. Nominal centre frequency f_0 : | 140.0 MHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 3 dB - frequencies: | $> f_0 \pm 50$ kHz |
| 2.2.2. Ripple: | < 2.0 dB at $f_0 \pm 35$ kHz |
| 2.2.3. Insertion loss:
(measured on smallest attenuation in pass band) | < 5.0 dB |
| 2.3. Stop band | |
| 2.3.1. $f_0 \pm 200$ kHz | > 40 dB (except spurious) |
| 2.3.2. alternate attenuation | > 60 dB (except spurious) |
| 2.4. Terminating impedance R/C (input and output): | $50 \Omega // 0$ pF |
| 2.5. Input power level for reference measurement: | -10 dBm |
| 2.5.1. Maximum input power level without destruction: | +5 dBm |
| 3. Marking on the case: | TELEFILTER yyww
QF 140.0-10000/06 |
| 4. Environment conditions: | MIL standard |
| 5. Filters are Pb-free and 2002 /95 / EC RoHS compliant | |

6. 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

Chip-mount air reflow profile



Edited by:

date: _____ name: _____