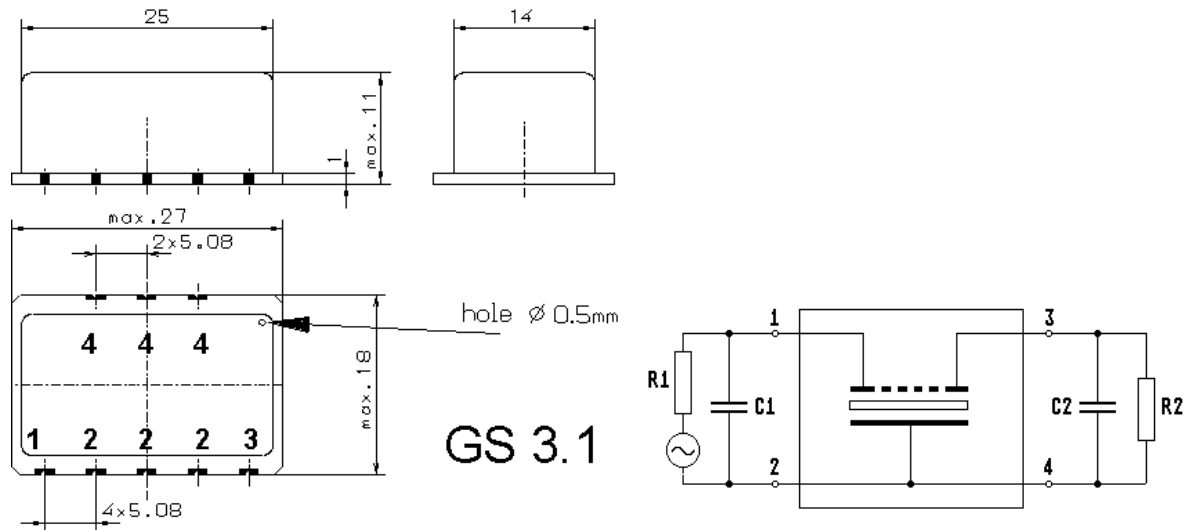


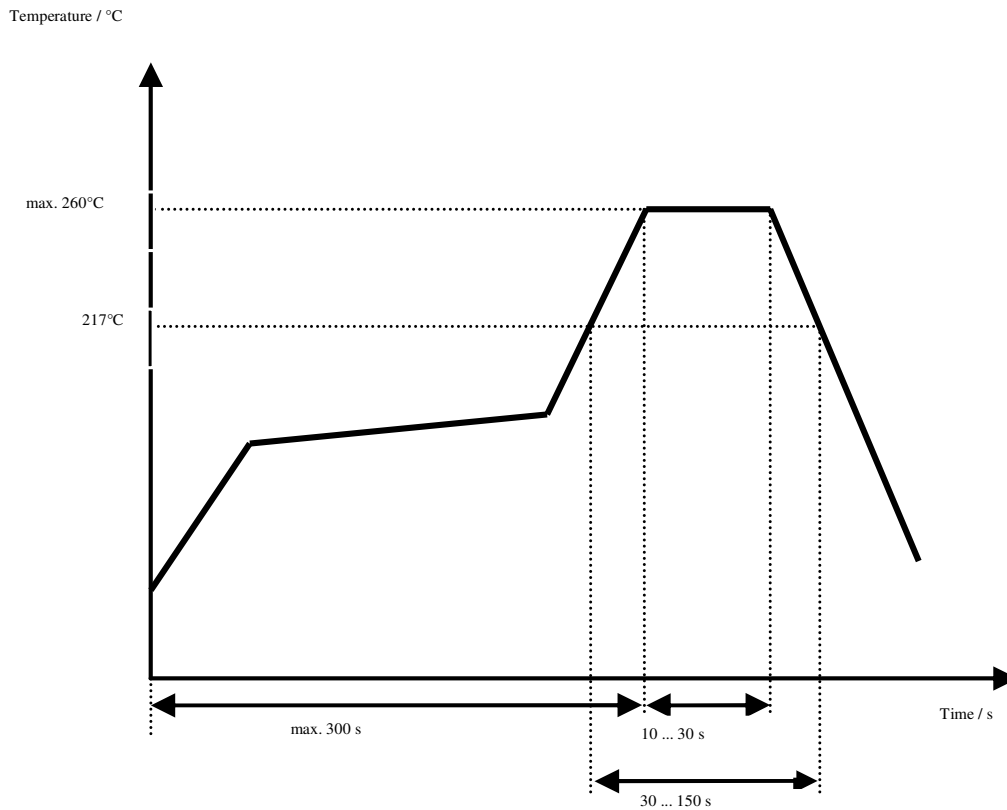
Specification for monolithic crystal filter **MQF 71.85-2500/12**

1. General

1.1. Package:



Chip-mount air reflow profile



- |                                   |                     |
|-----------------------------------|---------------------|
| 1.2. Type name:                   | MQF 71.85-2500/12   |
| 1.3. Number of poles:             | 6, fundamental mode |
| 1.4. Operating temperature range: | -40°C to +70°C      |
| 1.5. Storage temperature range:   | -45°C to +85°C      |

**2. Electric values**

2.1. Nominal centre frequency fo: 71.85 MHz

**2.2. Pass band**

- 2.2.1. Bandwidth between 6 dB - frequencies:  $> f_o \pm 12.5 \text{ kHz}$
- 2.2.2. Ripple:  $< 1.5 \text{ dB at } f_o \pm 9 \text{ kHz}$
- 2.2.3. Group delay distortion:  $< 14 \mu\text{s at } f_o \pm 9 \text{ kHz}$
- 2.2.4. Insertion loss:  $< 4.5 \text{ dB}$   
( measured on smallest attenuation in pass band )

**2.3. Stop band**

- 2.3.1.  $f_o \pm 30 \text{ kHz}$   $> 20 \text{ dB}$
- 2.3.2.  $f_o \pm 45 \text{ kHz}$   $> 40 \text{ dB}$
- 2.3.3.  $f_o \pm 60 \text{ kHz}$   $> 55 \text{ dB}$
- 2.3.4.  $f_o -900 \text{ kHz} \dots \dots -1000 \text{ kHz}$   $> 80 \text{ dB}$
- 2.3.5. Spurious responses:  $> 50 \text{ dB}$

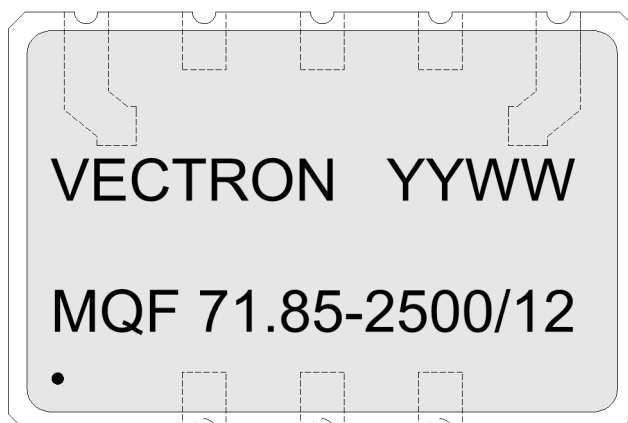
2.4. Terminating impedance ( input and output ):  $50 \Omega // 0 \text{ pF}$

2.5. Maximum input level:  $-5 \text{ dBm ( } +5 \text{ dBm non-damaged )}$

2.6. Intermodulation measurement with two test tones of  $-28\text{dBm}$  power level at filter's input and test tones frequencies at  $f_o+200\text{kHz} / f_o+400\text{kHz}$  and  $f_o-200\text{kHz} / f_o-400\text{kHz}$ . 3-rd order intermodulation products at  $f_o$  have to be at least  $90\text{dB}$  down from both of the  $-28\text{dBm}$  test tones which means that  $\text{IP}_3$  is greater or equal then  $+17\text{dBm}$

3. Laser or inkjet marking on the package:

### Top view



4. Environment conditions: Corresponding to Telefilter CF001

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Edited by: \_\_\_\_\_ date: \_\_\_\_\_ name: \_\_\_\_\_