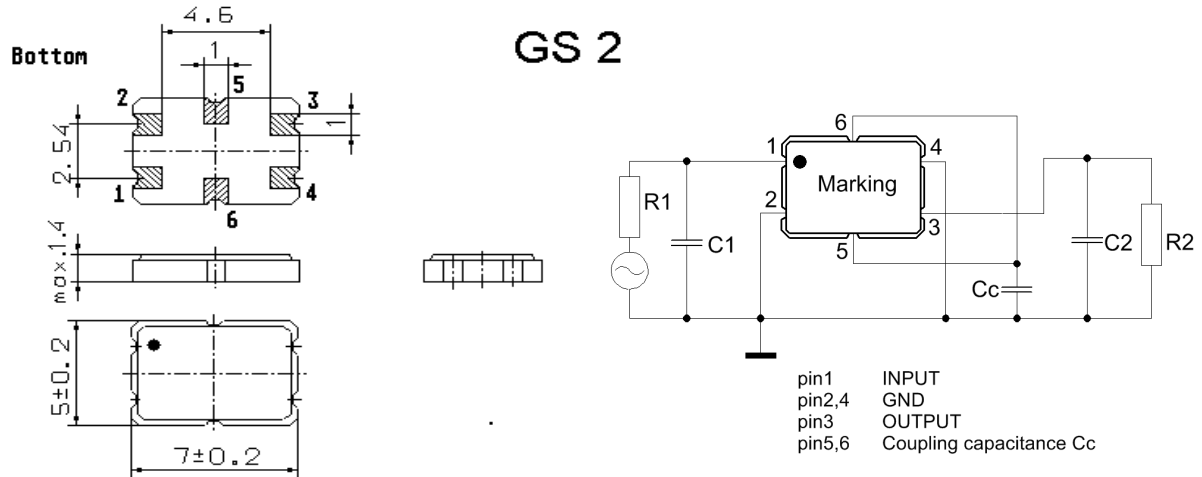


Specification for monolithic crystal filter: **MQF 73.3 - 2500/02**

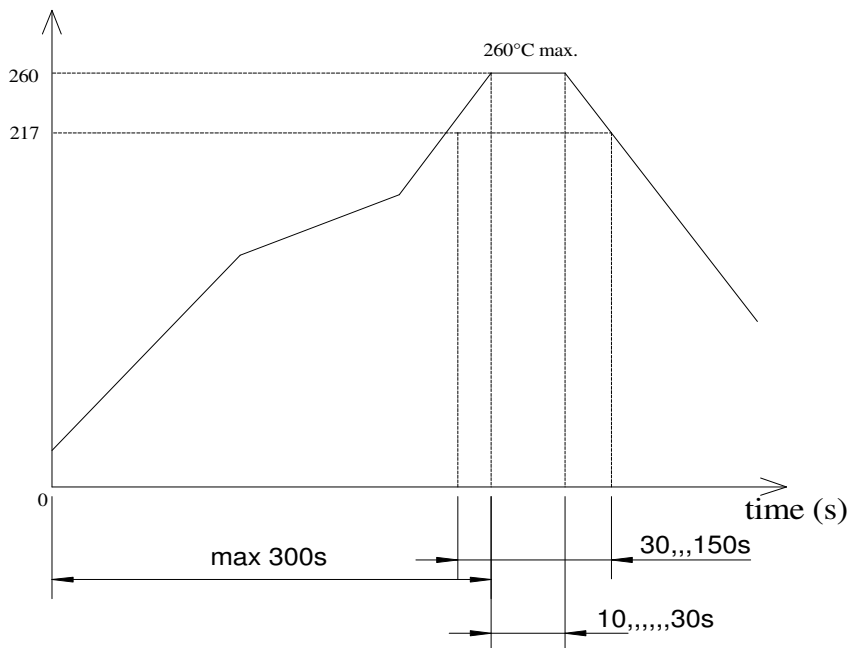
1. General

1.1. Package:



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 73.3-2500/02 |
| 1.3. Number of poles: | 4 |
| 1.4. Operating temperature range: | -30°C to +85°C |
| 1.5. Storage temperature range: | -40°C to +90°C |

temperature (°C)



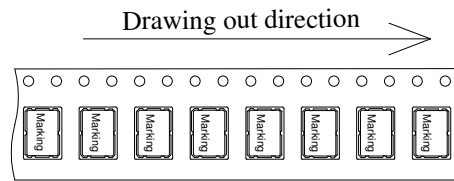
Reflow soldering: three times max.

2. Electric values

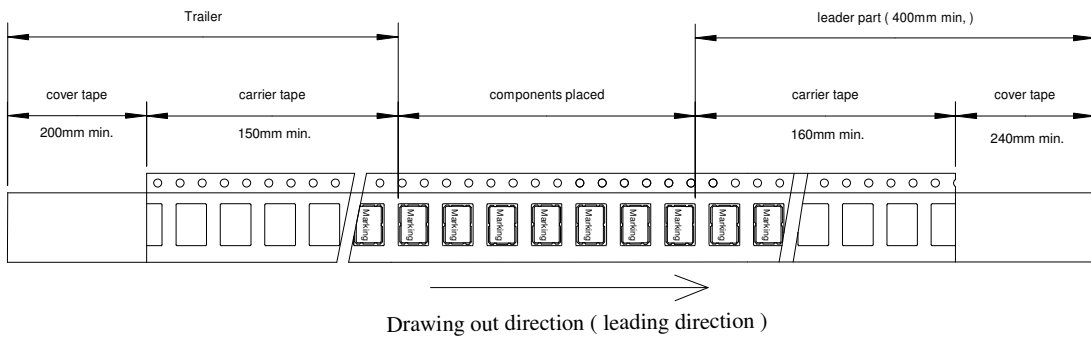
- | | |
|---|---|
| 2.1. Nominal centre frequency f_0 : | 73.30 MHz |
| 2.1.1 Centre frequency f_c at +25°C | 73.30 MHz \pm 1.5 kHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 3 dB - frequencies: | > $f_c \pm 12.5$ kHz |
| 2.2.2. Ripple in pass band: | < 1.0 dB peak to peak |
| 2.2.3. Insertion loss: (measured on smallest attenuation in pass band) | < 6.0 dB |
| 2.2.4. Differential group delay at $f_c \pm 9$ kHz | < 16 μ s |
| 2.3. Stop band | |
| 2.3.1. $f_c \pm 25$ kHz | > 15 dB |
| 2.3.2. $f_c \pm 50$ kHz | > 40 dB |
| 2.3.3. Alternate Attenuation at $f_c \pm 1.0$ MHz | > 70 dB (except spurious) |
| 2.4. Terminating impedance R//C (input and output): | 800 Ω // 1.5 pF |
| 2.4.1. Coupling capacitance C_c : | 4.0 pF |
| 2.5. Maximum input power level working: | -10 dBm |
| non-damaged: | 0 dBm |
| 2.6. Out band Intermodulation (IP3 > +20 dBm) | |
| - test tones: | $f_0 \pm 25$ kHz / $f_0 \pm 50$ kHz |
| - Input power level: | -20 dBm |
| - 3rd order intermodulation products at f_0 : | > 80 dB (down from either of the -20 dBm test tones) |
| 3. Marking on the case: | • M73325A VI yyww |
| 4. Environment conditions: | Corresponding to Vectron CF001 |
| 5. Filters are Pb-free and 2002 /95 / EC RoHS compliant | |

6. Packing

maximum 1000 pcs. / reel

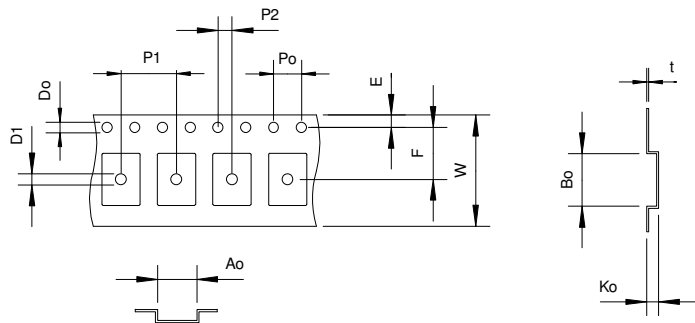


Tape dimension (mm)



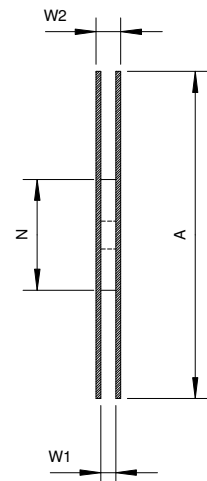
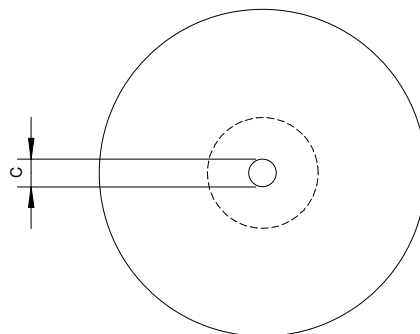
Tape (all dimensions in mm)

- W: 16.0 ± 0.1
- Po: 4.0 ± 0.1
- P1: 8.0 ± 0.1
- P2: 2.0 ± 0.1
- Do: $1.5 +0.1 / -0$
- D1: $1.6 +0.1 / -0$
- E: 1.75 ± 0.1
- F: 7.5 ± 0.1
- Ko: 1.7 ± 0.1
- Ao: 5.6 ± 0.1
- Bo: 7.6 ± 0.1
- t: 0.3 ± 0.05



Reel (all dimension in mm)

- A: $\varnothing 178 \pm 2$
- C: $\varnothing 13 \pm 0.5$
- N: $\varnothing 60 \pm 1$
- W1: 17.5 ± 1.5
- W2: 21.5 ± 1.5



Edited by: _____ date: _____ name: _____