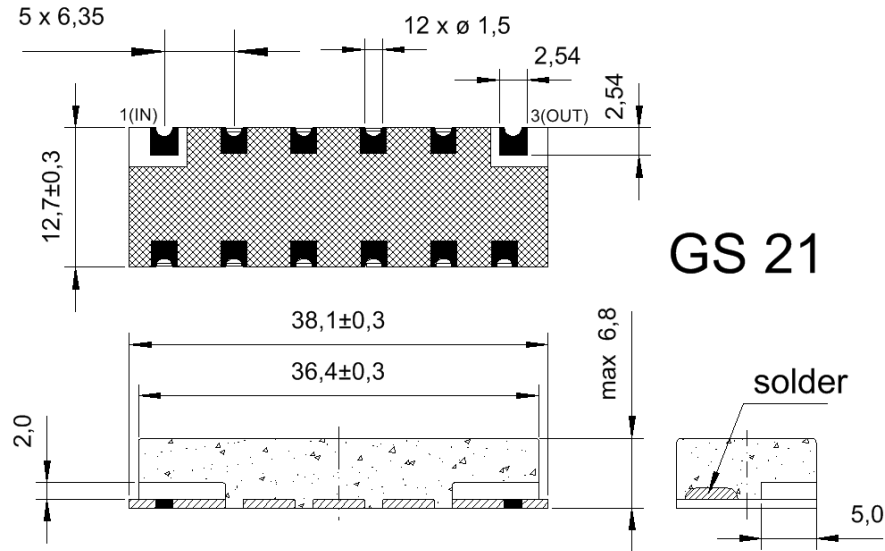


Specification for monolithic crystal filter **MQF 70.0-2000/23**

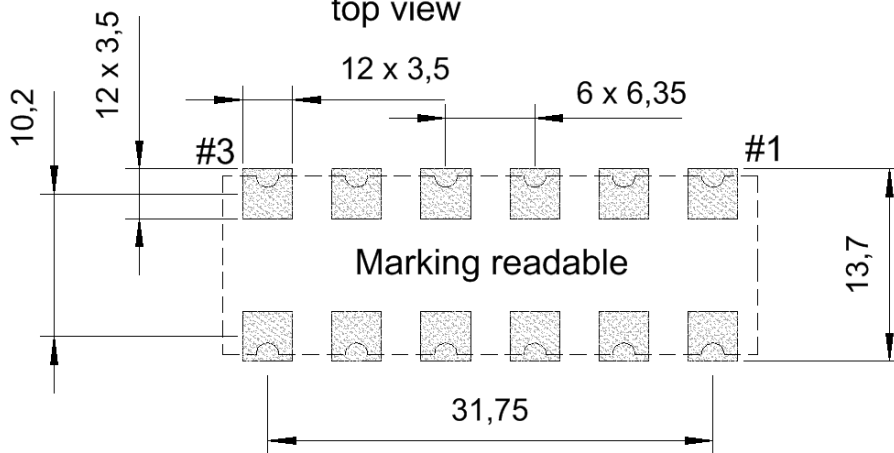
1. General

1.1. Package:



GS 21

recommended footprint for package GS 21.xx
top view



pin connection:

#1	Input
#3	Output
all other pads	GND

- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 70.0-2000/23 |
| 1.3. Number of poles: | 10 |
| 1.4. Operating temperature range: | -40°C to +85°C |
| 1.5. Storage temperature range: | -55°C to +85°C |

2. Electric values

2.1. Nominal centre frequency f_0 : 70.0 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: $> f_0 \pm 10$ kHz

2.2.2. Ripple in pass band (peak to peak): < 1.5 dB

2.2.3. Insertion loss: < 7.0 dB

(measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. $f_0 \pm 22$ kHz > 40 dB

2.3.2. $f_0 \pm 25$ kHz > 60 dB

2.3.3. $f_0 \pm 28$ kHz > 70 dB

2.3.4. Guaranteed attenuation > 80 dB

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

2.5. Maximum input power level: 0 dBm / +10 dBm
(working / non-damaged)

3. Marking:



4. Environment conditions: Corresponding to Vectron MIL standard

5. Packing: Tape & reel, maximum 500 pcs. / reel

6. Reflow soldering for Pb-free assembly:

$> 100^\circ\text{C}$ for maximum 600 seconds

$> 200^\circ\text{C}$ for maximum 180 seconds

$> 260^\circ\text{C}$ for maximum 30 seconds,

peak temperature, cool - down time: 2 hours

Edited by: _____ date: _____ name: _____