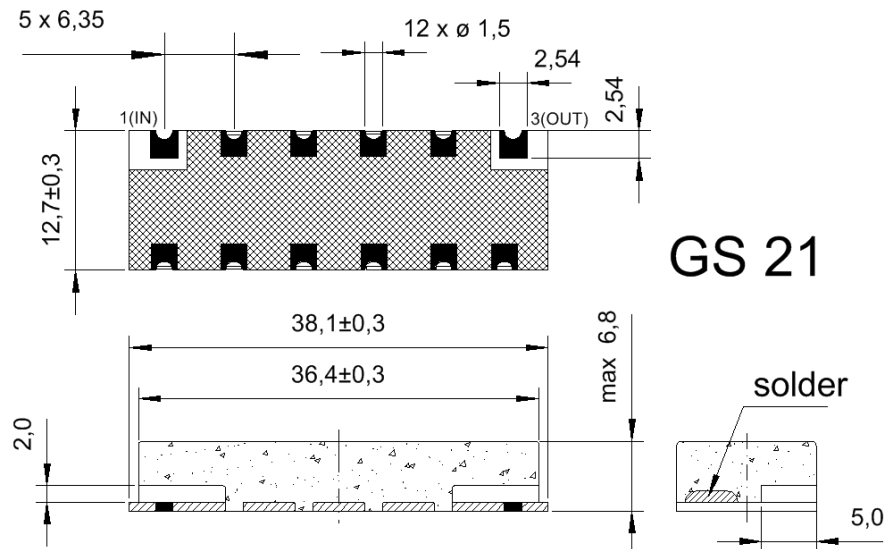


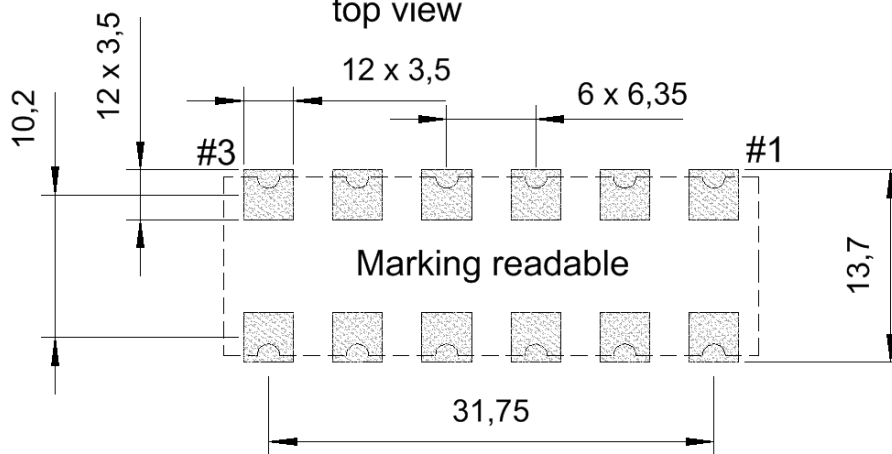
Specification for monolithic crystal filter **MQF 70.0-5000/22**

1. General

1.1. Package:



recommended footprint for package GS 21.xx
top view



pin connection:

#1	Input
#3	Output
all other pads	GND

- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 70.0-5000/22 |
| 1.3. Number of poles: | 6 |
| 1.4. Operating temperature range: | -40°C to +85°C |
| 1.5. Storage temperature range: | -45°C to +85°C |

2. Electric values

2.1. Nominal centre frequency fo: 70.0 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: $> f_o \pm 25$ kHz

2.2.2. Ripple: < 1.0 dB at $f_o \pm 17.5$ kHz

2.2.3. Insertion loss:
(measured on smallest attenuation in pass band) < 4.5 dB

2.2.4. Return loss (IN / OUT) ≥ 11.0 dB at $f_o \pm 17.5$ kHz

2.3. Stop band

2.3.1. $f_o \pm 80$ kHz > 60 dB

2.3.2. $f_o \pm 100$ kHz > 70 dB

2.3.3. Alternate attenuation > 80 dB (except spurious)

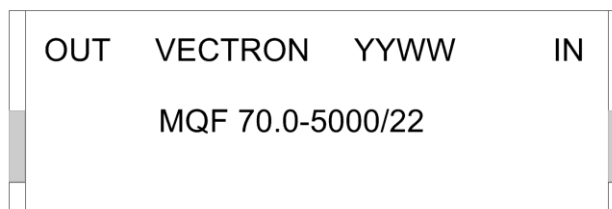
2.3.4. Spurious responses > 50 dB

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

2.5. Maximum input power level:
(working / non-damaged) -5 dBm / $+10$ dBm

3. Marking:

top view



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: _____