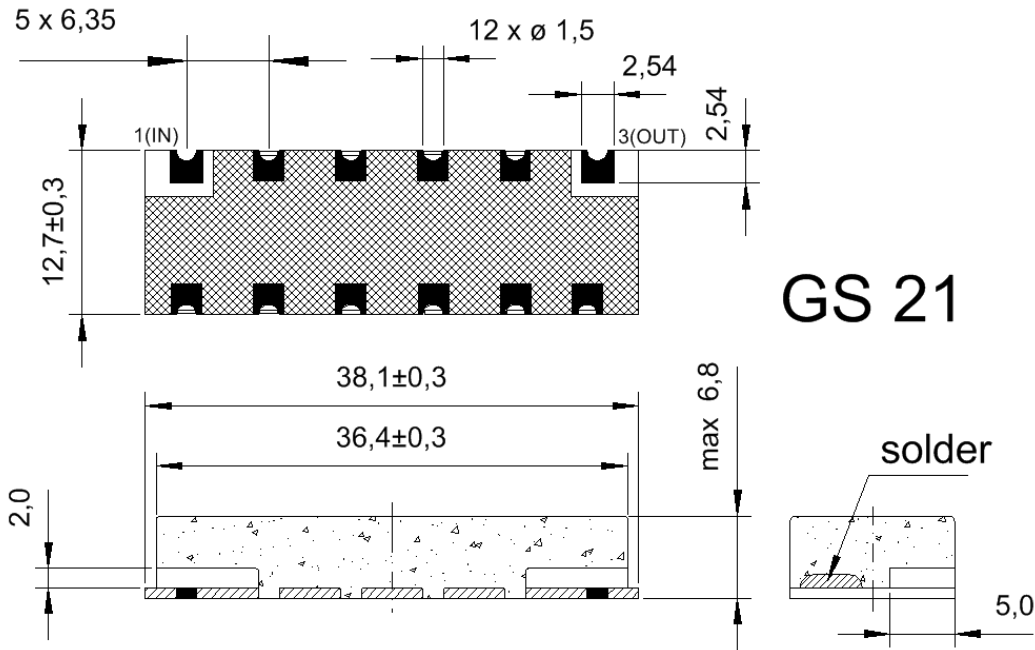


Specification for monolithic crystal filter: **MQF 20.0-0600/06**

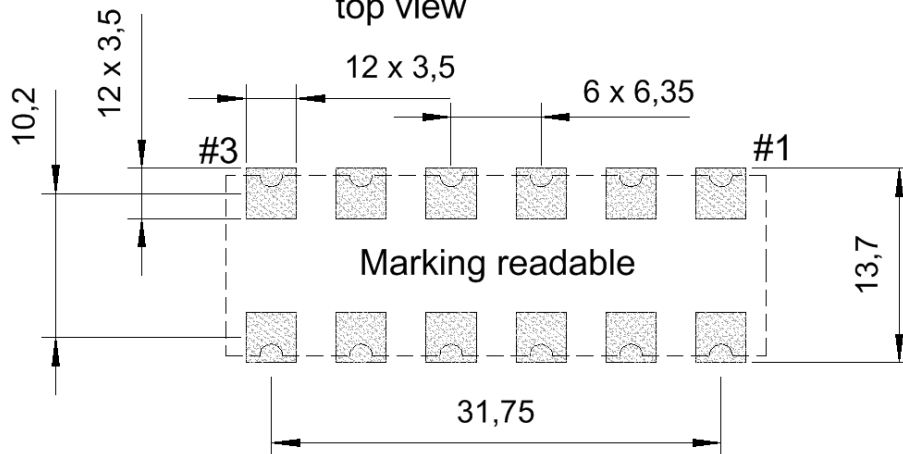
**1. General**

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 20.0-0600/06 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -20°C to +70°C   |
| 1.5. Storage temperature range:   | -45°C to +85°C   |
- 2. Electric values**
- |                                   |          |
|-----------------------------------|----------|
| 2.1. Nominal centre frequency fo: | 20.0 MHz |
|-----------------------------------|----------|
- 2.2. Pass band**
- |  |                          |
|--|--------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies: | > fo ± 3 kHz             |
| 2.2.2. Ripple:                               | < 2.0 dB at fo ± 2.0 kHz |
| 2.2.3. Insertion loss:                       | < 3.5 dB                 |
- ( measured on smallest attenuation in pass band )
- 2.3. Stop band**
- |                               |         |
|-------------------------------|---------|
| 2.3.1. fo ± 10 kHz            | > 40 dB |
| 2.3.2. fo ± 12.5 kHz          | > 60 dB |
| 2.3.3. Alternate attenuation: | > 60 dB |
- |   |                  |
|---|------------------|
| 2.4. Terminating impedance R//C ( input and output ): | 50 Ω // 0 pF     |
| 2.5. Maximum input power ( working / non-damaged )    | +0 dBm / +15 dBm |
3. Marking: manufacturer, date code  
MQF 20.0-0600/06
4. Environment conditions: According to Vectron standardCF001
5. Reflow soldering for Pb-free assembly:
- > 100°C for maximum 600 seconds  
> 200°C for maximum 180 seconds  
> 260°C for maximum 30 seconds, ( peak temperature )  
cool - down time: 2 hours
6. Packing: tape and reel, maximum 500 pcs. / reel

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