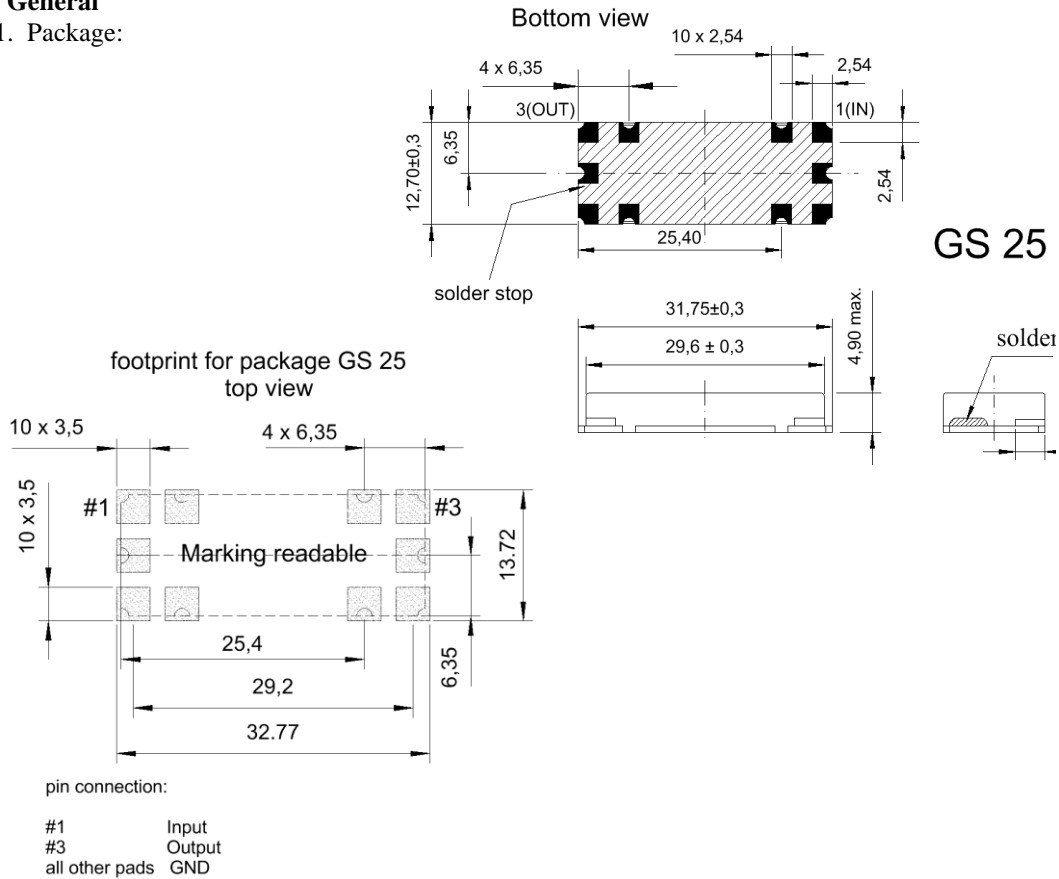


Specification for monolithic crystal filter:

MQF 21.4-3000/58

1. General

1.1. Package:



GS 25

- 1.2. Type name: MQF 21.4-3000/58
- 1.3. Number of poles: 6
- 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 fo: 21.4 MHz

2.2. Pass band

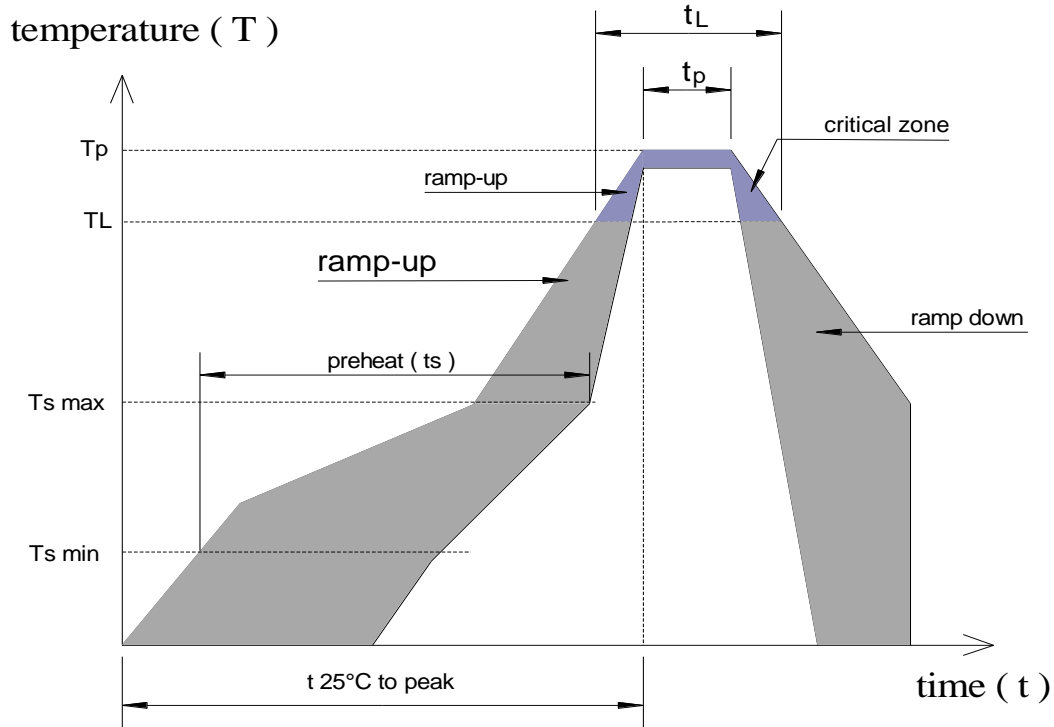
- 2.2.1. Bandwidth between 3 dB - frequencies: > fo ± 15 kHz
- 2.2.2. Ripple at fo ± 10 kHz < 2.0 dB
- 2.2.3. Insertion loss: < 2.5 dB
(measured on smallest attenuation in pass band)

2.3. Stop band

- 2.3.1. fo ± 35 kHz > 45 dB
- 2.3.2. fo ± 50 kHz > 65 dB
- 2.3.3. fo ± 70 kHz.....fo ± 500 MHz): > 80 dB except spurious

- 2.4. Terminating impedance R/C (input and output): 2700 Ω // 0 pF
- 2.5. Maximum input power (working / non-damaged): +10 dBm / +25 dBm

3. Marking: manufacturer, date code
MQF 21.4-3000/58
4. Environment conditions: Corresponding to Vectron standard CF001
5. Reflow profile corresponding to IPC / JEDEC J-STD-020C



Profile feature	Pb-free assembly	
	large body	small body
Average ramp-up rate (T_L to T_p)	3°C / second max.	
Average ramp-up rate ($T_{s\ max}$ to T_L)	3°C / second max.	
Preheat:		
- Temperature Min $T_{s\ min}$	150°C	
- Temperature Min $T_{s\ max}$	200°C	
- Time t_s ($T_{s\ min}$ to $T_{s\ max}$)	60-180 seconds	
Time maintained above:		
- Temperature T_L	217°C	
- Time t_L	60-150 seconds	
Peak temperature T_p	260 +0/-6°C	
Time within 5°C of actual peak temperature T_p	10-30 seconds	20-40 seconds
Ramp-down rate	6°C / second max.	
Time 25°C to peak temperature	8 minutes max.	
All temperatures refer to topside of the package, measured on body surface of the		

6. packing: tape & reel, reel diameter 330mm, maximum 600 pcs. / reel

Edited by: _____ date: _____ name: _____