

Monolithic crystal filter

MQF 70.0-5000/24 (preliminary specification)



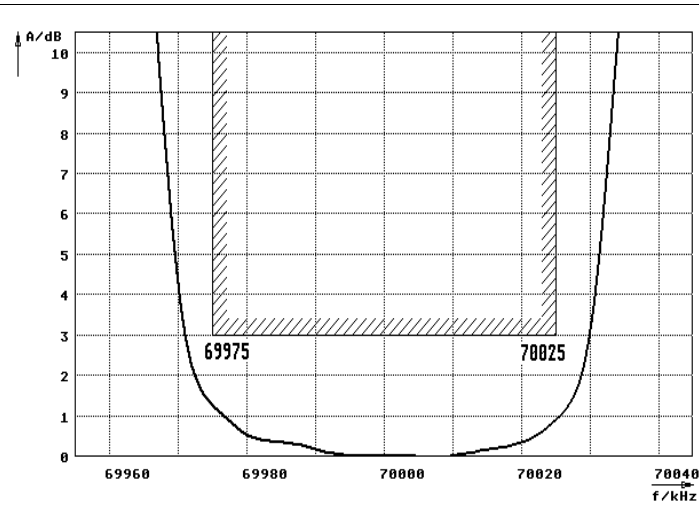
Application

- 6 pole filter

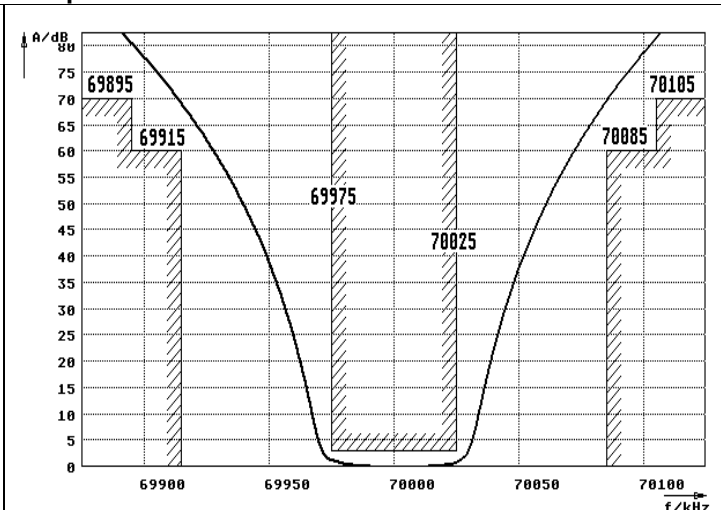
Limiting values		Unit	Value
Nominal center frequency	f_0	MHz	70.0
Insertion loss		dB	< 5.0
Pass band at 3.0dB		kHz	$> f_0 \pm 25$
Ripple in pass band	peak to peak	dB	< 2.0
Differential group delay	$f_0 \pm 10$ kHz	μs	< 4.0
Stop band attenuation	$f_0 \pm 85$ kHz	dB	> 60
	$f_0 \pm 105$ kHz	dB	> 70
Alternate attenuation	$f_0 \pm 910$ MHz	dB	> 80 except spurious
Spurious responses		dB	> 50
Maximum input power level	working / non-damaged	dBm	0 / +10
Terminating impedance Z			
R1 C1		Ohm/pF	50 0
R2 C2		Ohm/pF	50 0
Operating temperature range		$^{\circ}C$	-20.....+85
Storage temperature range		$^{\circ}C$	-45.....+85
Environment conditions	according to Vectron CF001		

Characteristics MQF 70.0-5000/24

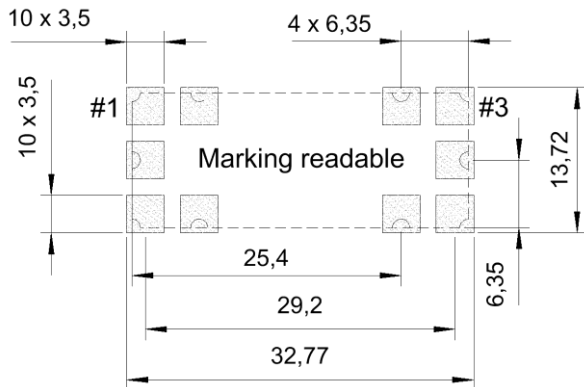
Pass band



Stop band



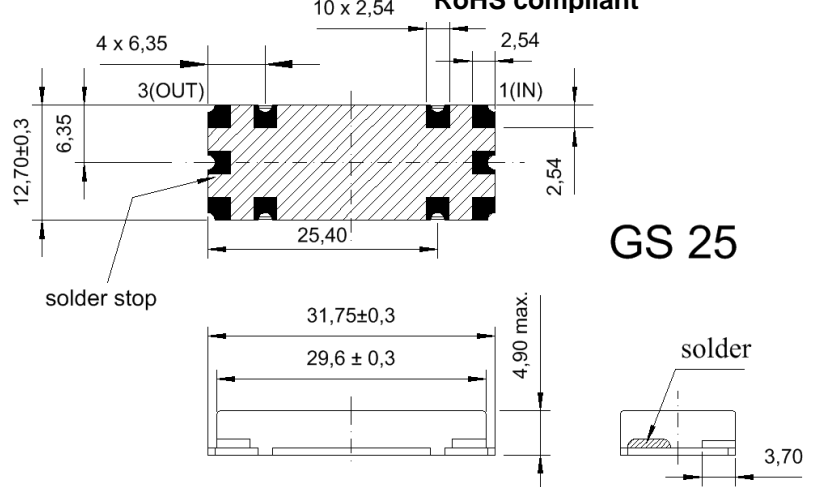
footprint for package GS 25 top view



pin connection:

- #1 Input
- #3 Output
- all other pads GND

Bottom view



GS 25