

# Monolithic crystal filter

## MQF 70.0-2500/17

( preliminary specification )



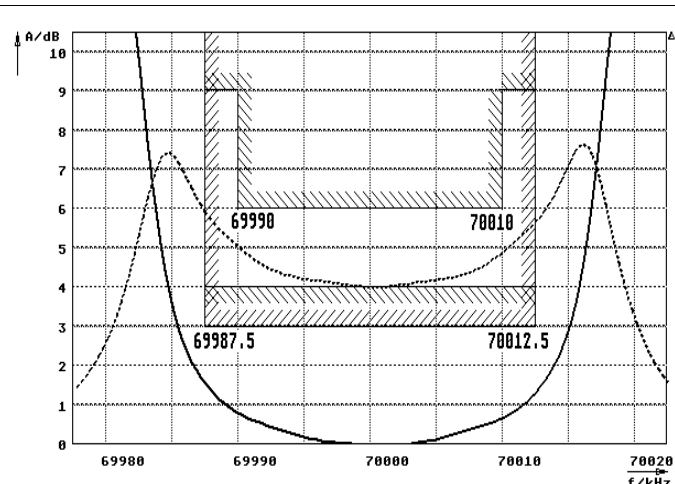
### Application

- 6 pole filter

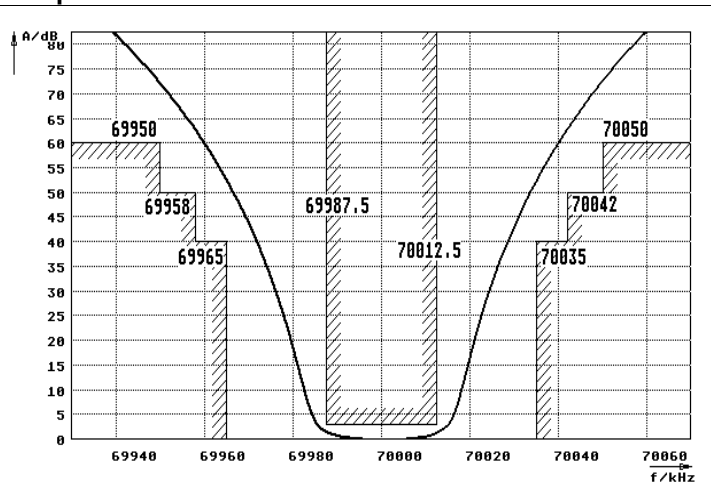
Limiting values		Unit	Value
Nominal center frequency	$f_0$	MHz	70.0
Insertion loss		dB	< 6.0
Pass band at 3.0dB		kHz	$> f_0 \pm 12.5$
Ripple in pass band	peak to peak	dB	< 2.0
Differential group delay	$f_0 \pm 10$ kHz	$\mu$ s	< 20
	$f_0 \pm 12.5$ kHz	$\mu$ s	< 50
Stop band attenuation	$f_0 \pm 35$ kHz	dB	> 40
	$f_0 \pm 42$ kHz	dB	> 50
	$f_0 \pm 50$ kHz	dB	> 60
Alternate attenuation	$f_0 \pm 910$ MHz	dB	> 80 except spurious
Spurious responses		dB	> 50
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 70.0-2500/17

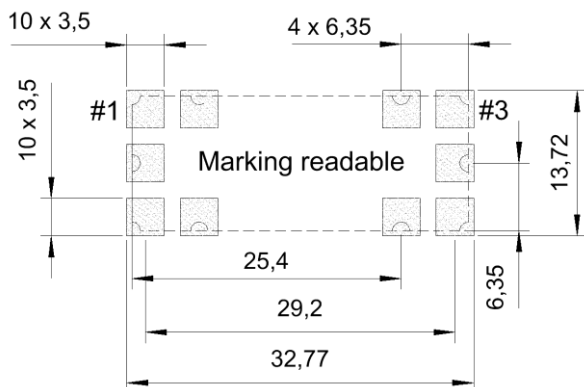
#### Pass band



#### Stop band



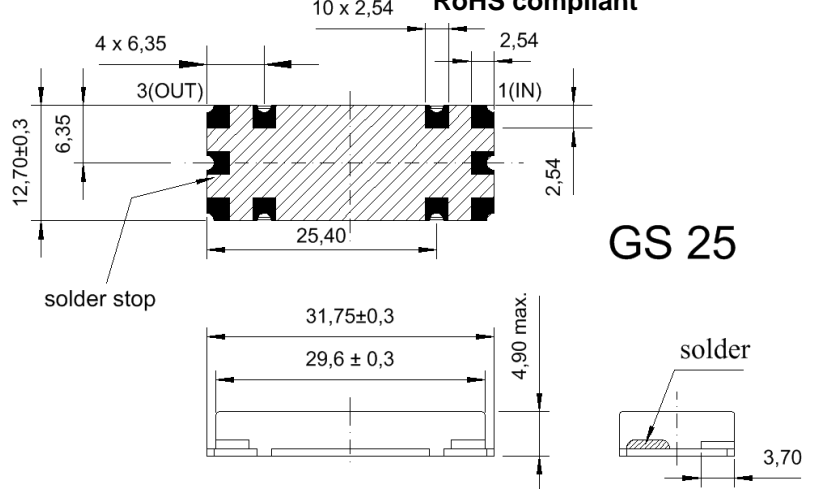
#### footprint for package GS 25 top view



pin connection:

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

#### Bottom view



GS 25