Monolithic crystal filter
MQF 45.0-2000/21 (preliminary specification)

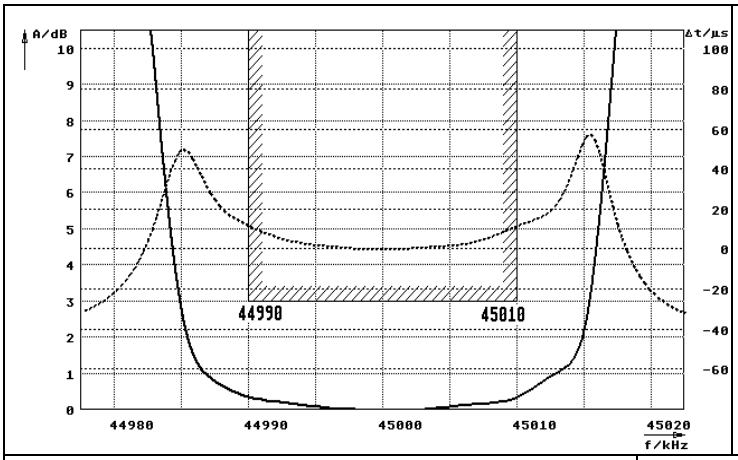
Application

- 6 pole filter

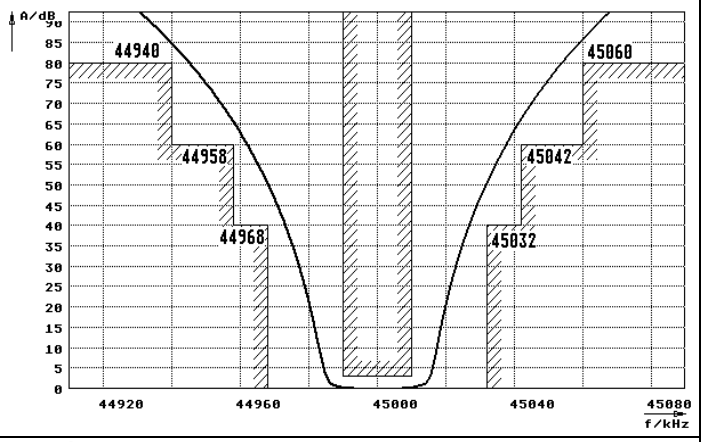
Limiting values	Conditions	Unit	Value
Nominal center frequency	fo	MHz	45.0
Insertion loss	smallest attenuation in pass band	dB	< 3.5
Pass band at 3.0 dB		kHz	> fo ± 10
Ripple in pass band	peak to peak	dB	< 1.0
Differential group delay Typical absolute group delay	fo ± 10 kHz at fo	µs µs	< 30 48
Stop band attenuation	fo ± 32 kHz fo ± 42 kHz fo ± 60 kHz	dB dB dB	> 40 > 60 > 80
Guaranteed attenuation	fo ± 60 kHz……..fo ± 10 MHz	dB	> 80 except spurious
Maximum input power level	working / non-damaged	dBm	0 / +10
Terminating impedance Z			
R1 II C1		Ohm II pF	50 || 0
R2 II C2		Ohm II pF	50 || 0
Operating temperature range		°C	-55……..+85
Storage temperature range		°C	-55……..+85
Environment conditions	Corresponding to MCHP general test procedure MCF-Com		

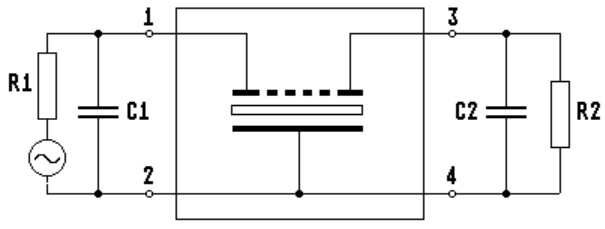
Characteristics MQF 45.0-2000/21

Pass band



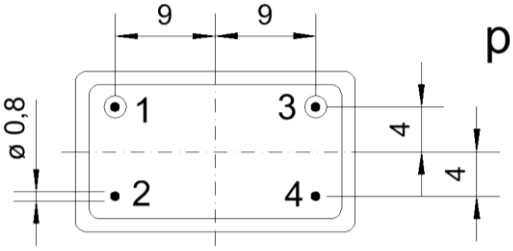
Stop band



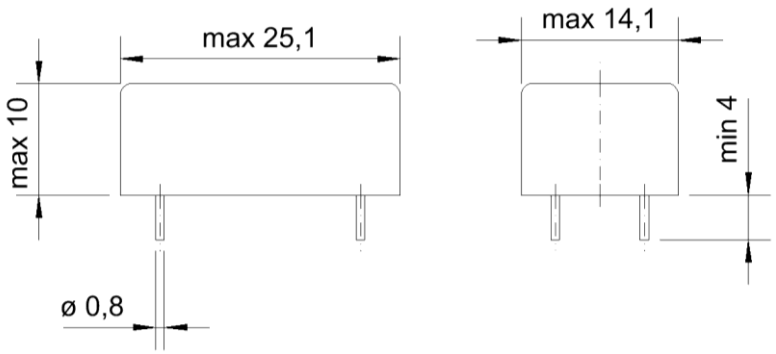


pin 1: Input
pin 3: Output
pin2, 4: GND

bottom view



package GM3



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27.01.2023