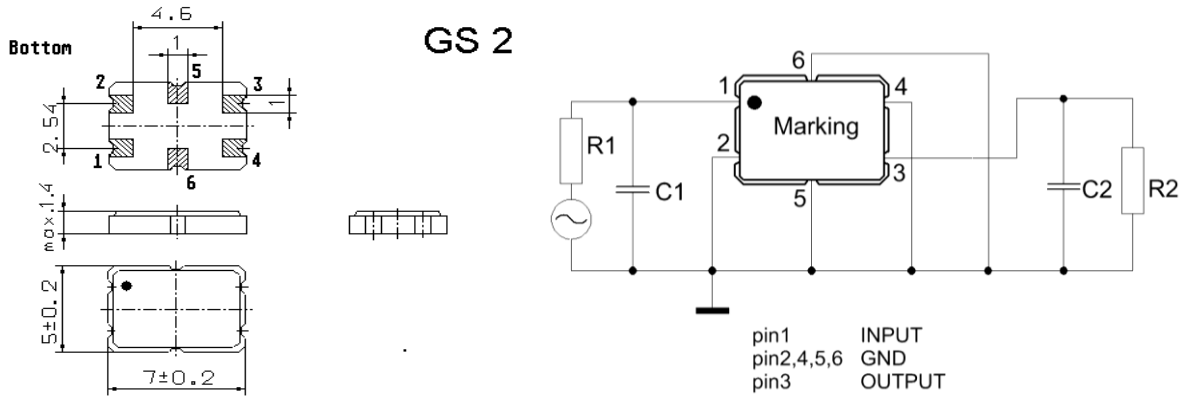
25 March 2011

Specification for monolithic crystal filter: **M Q F 5 0 . 7 2 5 - 2 5 0 0 / 0 1**

1. General

1.1. Package:



1.2.	Type name:	MQF 50.725-2500/01
1.3.	Number of poles:	2
1.4.	Operating temperature range:	-40°C to +85°C
1.5.	Storage temperature range:	-54°C to +100°C

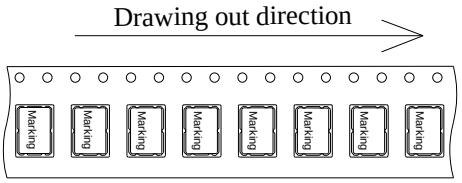
2. Electric values

2.1.	Nominal centre frequency fo:	50.725 MHz
2.2.	**Pass band**	
2.2.1.	Bandwidth between 3 dB - frequencies:	> fo ± 12.0 kHz
2.2.2.	Ripple:	< 1.0 dB at fo ± 8.0 kHz
2.2.3.	Insertion loss: (measured on smallest attenuation in pass band)	< 4.0 dB
2.3.	**Stop band**	
2.3.1.	fo ± 49 kHz	> 14 dB
2.3.2.	fo ± 95 kHz	> 25 dB
2.3.3.	Alternate attenuation fo ± 800 kHz	> 60 dB (except spurious)
2.4.	Terminating impedance R//C (input and output):	850 Ω // 1.0 pF
2.5.	Maximum input power level:	+10 dBm
2.6.	3rd order out band intermodulation	
	test tones frequency:	fo ± 50 kHz / fo ± 100 kHz
	Input power level:	-10 dBm
	Intermodulation products at fo (IP3 > +35 dBm)	< -100 dBm (90 dB down from both -10dBm input test tones)
3.	Marking:	M50.7A yyww
4.	Environment conditions:	Corresponding to Vectron standard CF001
5.	Filters are Pb-free and 2002 /95 / EC RoHS compliant	

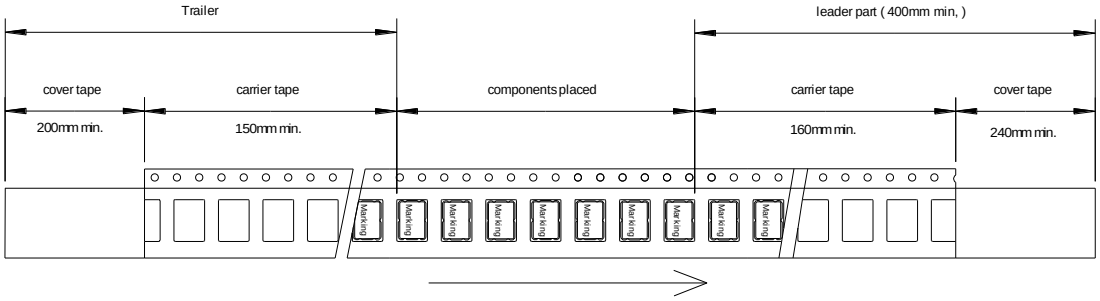
6. Reflow soldering for Pb-free assembly:

> 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

7. Packing:

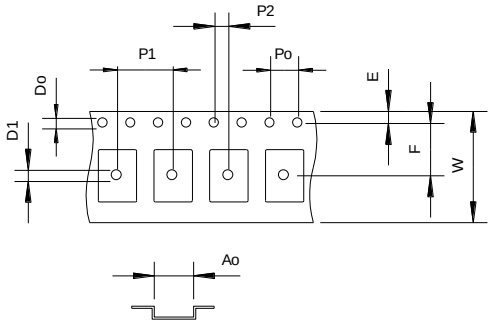


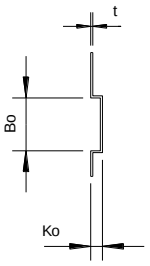
Tape dimension (mm)



Tape (all dimensions in mm)

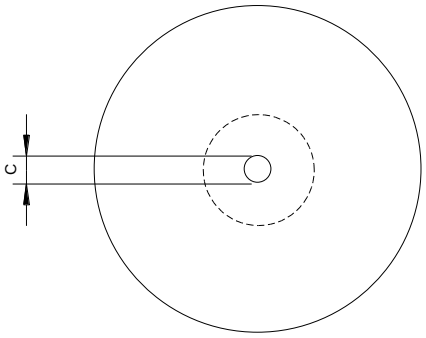
W: 16.0 ± 0.1
Po: 4.0 ± 0.1
P1: 8.0 ± 0.1
P2: 2.0 ± 0.1
Do: 1.5 +0.1 / -0
D1: 1.6 +0.1 / -0
E: 1.75 ± 0.1
F: 7.5 ± 0.1
Ko: 1.7 ± 0.1
Ao: 5.6 ± 0.1
Bo: 7.6 ± 0.1
t: 0.3 ± 0.05

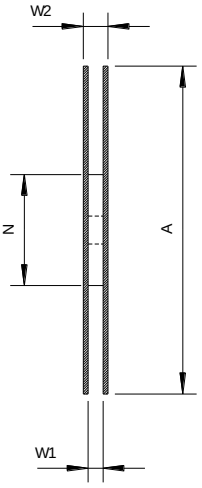




Reel (all dimension in mm)

A: ø 178 ± 2
C: ø 13 ± 0.5
N: ø 60 ± 1
W1: 17.5 ± 1.5
W2: 21.5 ± 1.5





Edited by: date: _____ name: _____