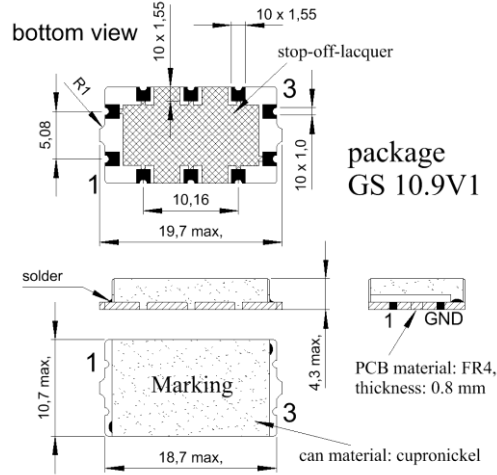


Specification for monolithic crystal filter:

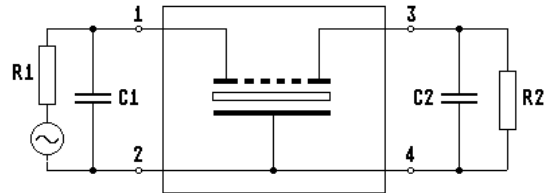
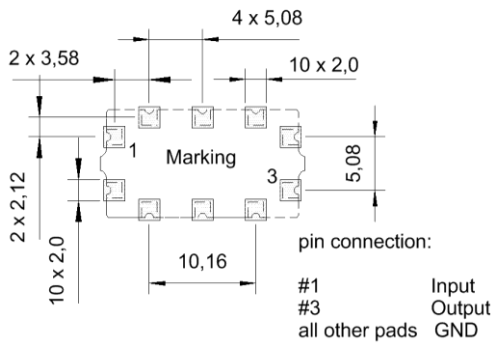
MQF 72.0 - 2500/02

1. General

1.1. Package:



recommended footprint for package GS 10.9V1
top view



1.2. Type name:

MQF 72.0-2500/02

1.3. Number of poles:

4

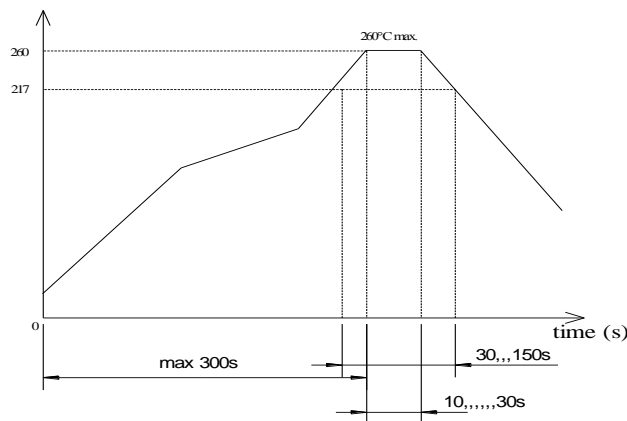
1.4. Operating temperature range:

-40°C to +85°C

1.5. Storage temperature range:

-55°C to +85°C

temperature (°C)



Reflow soldering: three times max.

2. Electric values

2.1. Nominal centre frequency f_0 : 72.0 MHz

2.2. Pass band

- 2.2.1. Bandwidth between 1.0 dB - frequencies: $> f_0 \pm 12.5$ kHz
- 2.2.2. Ripple in pass band ($f_0 \pm 12.5$ kHz): < 1.0 dB (peak to peak)
- 2.2.3. Group delay ripple ($f_0 \pm 12.5$ kHz): < 15 μ s
- 2.2.4. Return loss ($f_0 \pm 10$ kHz): > 10 dB
- 2.2.5. Insertion loss: < 4.0 dB
(measured on smallest attenuation in pass band)

2.3. Stop band

- 2.3.1. $f_0 \pm 25$ kHz > 5 dB
- 2.3.2. $f_0 \pm 50$ kHz > 30 dB
- 2.3.3. $f_0 \pm 75$ kHz > 45 dB
- 2.3.4. $f_0 \pm 100$ kHz > 45 dB
- 2.3.5. $f_0 \pm 200$ kHz > 50 dB (except spurious)
- 2.3.6. $f_0 \pm 42$ MHz > 50 dB
- 2.3.7. At 114 MHz, 207 MHz, 300 MHz > 50 dB
- 2.3.8. At 180 MHz.....190 MHz > 50 dB
- 2.3.9. Guaranteed attenuation : > 50 dB (except spurious)
(DC.... $f_0 - 200$ KHz / $f_0 + 200$ kHz....300 MHz)

2. 4. Out band Intermodulation

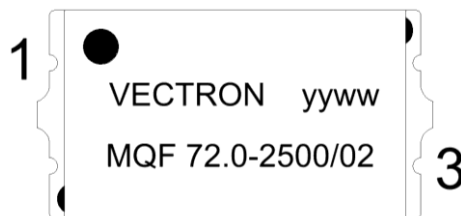
- 2.4.1. Test tones: $f_0 \pm 100$ kHz / $f_0 \pm 200$ kHz
- 2.4.2. Input power level: -10 dBm (at filter input)
- 2.4.3. IIP3: $> +20$ dBm (IMD > 60 dB)
(60 dB down from either of the two -10 dBm test tones)

2.5. Operating input power level: -80.....0 dBm

2.5.1. Maximum input power level without damage: +10 dBm

2.6. Terminating impedance R//C (input and output): 50 Ω // 0 pF

3. Marking:

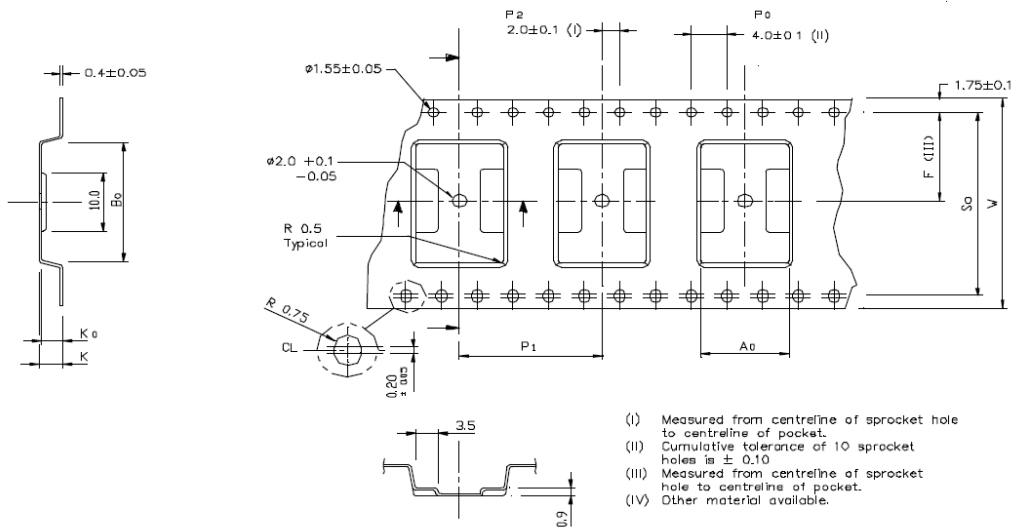
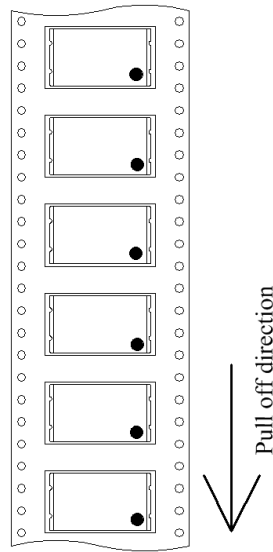


4. Environment conditions: Corresponding to Vectron MIL standard

5. Filters are Pb-free and 2002 /95 / EC RoHS compliant

6. Packing

Taping for MQF 72.0-2500/02
maximum 700 pcs. / reel



- (I) Measured from centreline of sprocket hole to centreline of pocket.
- (II) Cumulative tolerance of 10 sprocket holes is ± 0.10
- (III) Measured from centreline of sprocket hole to centreline of pocket.
- (IV) Other material available.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

A0	11.2 ± 0.1
B0	20.0 ± 0.1
K0	6.1 ± 0.1
F	14.2 ± 0.1
P1	16.0 ± 0.1
S0	28.4 ± 0.1
W	32.0 ± 0.3

C-PAK PTE LTD
Tolerance Unless Specified
Angle : = ± 0°-30°
Decimal : .0 = ± .10
.00 = ± .05
.000 = ± .02
Surface Finish: _____

MATERIAL: CONDUCTIVE POLYSTYRENE (IV)		1st Angle	<input type="checkbox"/>
DRAWN: KL NEO	CHECKED	DATE: 26/10/93	
DRAWING NO: CP018/93	SCALE: NTS	REV. DATE: NA	REV. NO: 0
TITLE: OPEN TOOL EMBOSSED CARRIER TAPE DIMENSIONS METRIC - TO 220			

Edited by: _____ date: _____ name: _____