

# **MOBICON**

## **Electronic Components**

### **PRODUCT SPECIFICATION**

#### **MEC OSCILLATOR**

#### **FREQUENCY COMPONENTS**

**MO-12B Series OSCILLATOR SPECIFICATION**

<b>MOBICON HOLDINGS LTD.</b>		
<b>Prepared By</b>	<b>Sign.</b>	<b>Approved By</b>
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**[www.mobicon.com](http://www.mobicon.com)**

# MEC

## CRYSTAL OSCILLATOR SPECIFICATION

### FEATURE:

This crystal oscillator employs hybrid IC, crystal technology and designed to be used in CMOS logic family. This model has excellent duty cycle, great fan out capability, low power consumption, which is useful for a variety of application.

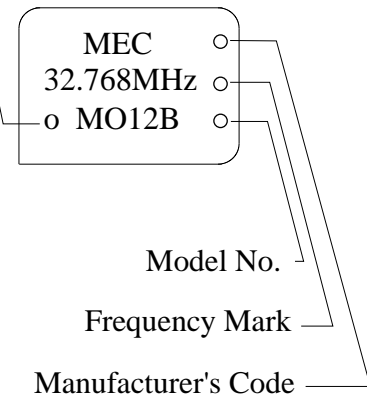
**PART NO. :**

**MO-12B**

### ELECTRICAL CHARACTERISTICS

1. Nominal Frequency	32.768MHz
2. Holder Type	Full Size / 14 Pins
3. Frequency Stability	$\pm 50$ ppm
4. Operating Current	30 - 40 mA
5. Operating Voltage	5V <sub>DC</sub> $\pm$ 0.5V
6. "0" Level (Low Voltage)	0.5V ( 10% V <sub>DD</sub> )
7. "1" Level (High Voltage)	4.5V min. ( 90% V <sub>DD</sub> )
8. Rise and Fall Time	10ns max.
9. Operating Temperature	0°C ~ +70°C
10. Storage Temperature	-50°C ~ +125°C
11. Output Symmetry	40 ~ 60%
12. Output Load	10 LSTTL

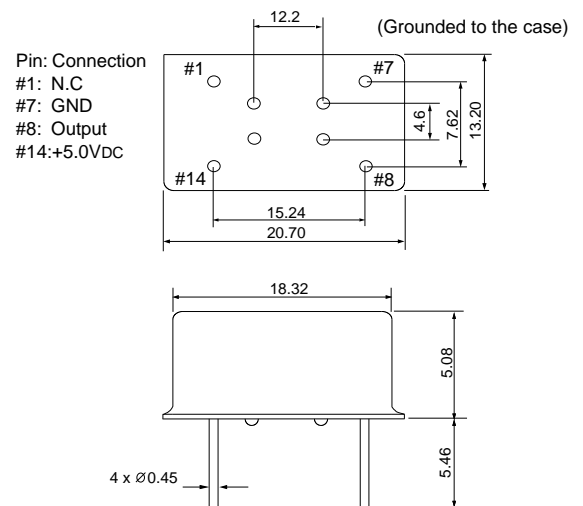
Terminal '1' Indication



### OTHER CHARACTERISTICS

Stock	1000g
Humidity	50°C 95% RH 1000 hours
Weight	5 grams
Vibration	Amplitude 1mm Cycle 1 min., 3 directions, 2 hours each

### Mechanical Dimensions (Unit = mm)



Prepared by: Leo Wong

DOC. No:MO12B-32.768MHzFS5V50ppm

# MEC

## REVIEW OF SPECIFICATIONS

- 1) When something get doubtful with this specifications, we shall jointly work to get an agreement.
- 2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.
- 4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.

### **When using our products, the following precautions should be taken.**

- (1) Safety designing of apparatus or a system allowing for failures of electronic components used in the system  
In general, failures will occur in electronic components at a certain probability. MOBICON HOLDINGS LTD makes every effort to improve the quality and reliability of electronic component products. However, it is impossible to completely eliminate the probability of failures. Therefore, when using MOBICON HOLDINGS LTD electronic component products, systems should be carefully designed to ensure redundancy in the event of an accident which would result in injury or death, fire, or social damage, to ensure the prevention of the spread of fire, and the prevention of faulty operation.
- (2) Quality Level of various kinds of parts, and equipment in which the parts can be utilized  
Electronic components have a standard quality level unless otherwise specified.
- (3) This specifications is subject to change without notice.  
The contents of this specifications are based on data which is correct as of 2002, and they may be changed without notice. If our products are used for mass-production design, please enquire consult with a member of our company's sales staff by way of precaution.
- (4) Reprinting and copying of this specifications without prior written permission from MOBICON HOLDINGS LTD are not permitted.
- (5) Industrial Property Problems  
In the event any problems associated with industrial property of a third party arising as a result of the use of our products. MOBICON HOLDINGS LTD assumes no responsibility for problems other than problems directly associated with the constitution and manufacturing method of the products.



Prepared By: Leo Wong  
DOC. No: Review of Spec