



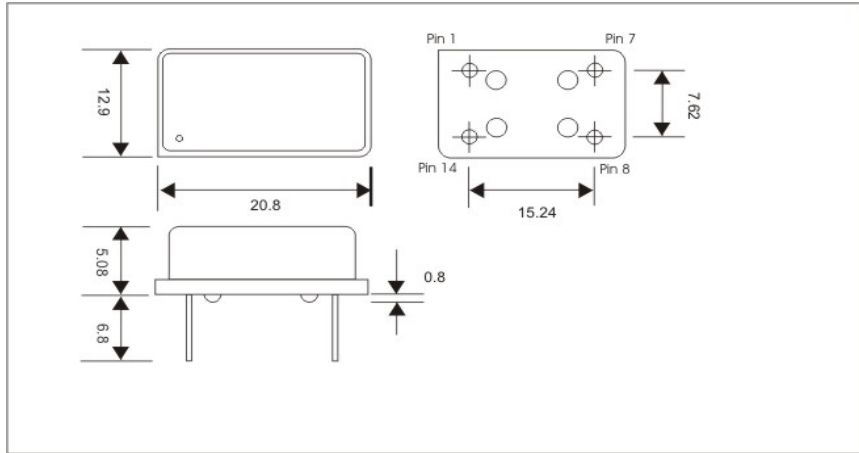
## 97-Series General Oscillator Specifications

| Description                          | Min   | Typ   | Max     | Unit  |
|--------------------------------------|-------|-------|---------|-------|
| Frequency Range                      | 0.5   |       | 125     | MHz   |
| Overall Stability (+/-)              | 10    |       | 100     | ppm   |
| Supply Voltage                       | 3.3   |       | 5       | V     |
| Operating Temperature Range          | 0~70  |       | -55~125 | Deg C |
| Capacitive Load on Output            |       | 15    | 50      | pF    |
| TTL Load on Output                   | 1     |       | 10      | TTL   |
| Supply Current:                      |       |       |         |       |
| 5V 0.5-23.9MHz                       |       |       | 20      | mA    |
| 5V 24-49.9MHz                        |       |       | 30      | mA    |
| 5V 50-69.9MHz                        |       |       | 40      | mA    |
| 5V 70-125MHz                         |       |       | 60      | mA    |
| 3.3V 0.5-23.9MHz                     |       |       | 15      | mA    |
| 3.3V 24-49.9MHz                      |       |       | 20      | mA    |
| 3.3V 50-69.9MHz                      |       |       | 30      | mA    |
| 3.3V 70-125MHz                       |       |       | 45      | mA    |
| Output Voltage :                     |       |       |         |       |
| High (5Vdd)                          | 4.5   |       |         | V     |
| High (3.3Vdd)                        | 2.4   |       |         | V     |
| Low (5Vdd)                           |       |       | 0.5     | V     |
| Low (3.3Vdd)                         |       |       | 0.5     | V     |
| Symmetry                             | 40:60 | 45:55 | 48:52   | %     |
| Jitter                               |       | 1     |         | pS    |
| Rise/Fall time (frequency dependant) | 1     | 8     | 10      | nS    |
| Start up Time                        |       |       | 10      | mS    |

AEL Crystals Ltd. Reserve the right to amend specifications without notification. Please ensure you have the latest issue

\*please contact our Sales Office for further options

|              |                             |
|--------------|-----------------------------|
| <b>TITLE</b> | AEL 97-series oscillator    |
| Part Number  | <b>Contact Sales Office</b> |
| Stock Number | <b>Contact Sales Office</b> |
| Issue Date   | 16/03/2006                  |
| Issue Number | 1                           |



## Pin Assignments

|        |                                |
|--------|--------------------------------|
| Pin 1  | N/C (9700) or Tri-State (9710) |
| Pin 7  | Ground                         |
| Pin 8  | Output                         |
| Pin 14 | +V DC                          |

## Tri-State Voltages

|       |                 |
|-------|-----------------|
| N.C   | Output Active   |
| >2.2V | Output Active   |
| <0.8V | Output Disabled |

(Pin 1 has internal pull up resistor to allow it to float High)

## Options and How to Specify

AEL97

Pin 1: 0=N.C., 1=E/D —

Supply voltage: 0=5V, 3=3.3V

Stability\* (+/-ppm): C=100, B=50, A=25

Temperature range: S=0~+70, I=-40~+85C, M=-55+125C

e.g. AEL9703CI 20MHz = N.C, 3.3V, +/-100ppm, -40~+85C, 20MHz



Module "D", Airtech II  
Jenner Road, Manor Royal  
Crawley RH10 9GA

© Not to be reproduced without permission of AEL Crystals Ltd