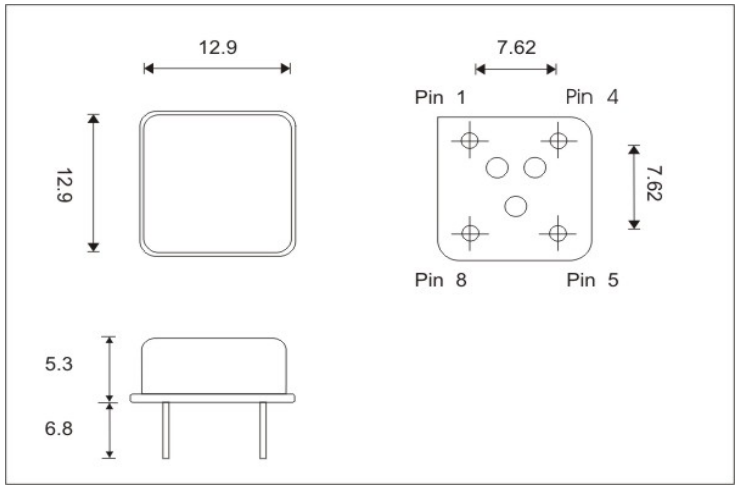
# AEL Crystals Limited — 12-Series General Oscillator Specifications

| 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




**Pin Assignments**

| | |
|---|---|
| Pin 1 | N/C (1200) or Tri-State (1210) |
| Pin 4 | Ground |
| Pin 5 | Output |
| Pin 8 | +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**

AEL12

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. AEL1210BS 40MHz = E/D, 5V, +/-50ppm, 0~+70C, 40MHz*

| | |
|---|---|
| **TITLE** | AEL 12-series oscillator |
| Part Number | **Contact Sales Office** |
| Stock Number | **Contact Sales Office** |
| Issue Date | 13/03/2006 |
| Issue Number | 1 |


AEL Crystals Limited

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