| FREQUENCIES AVAILABLE | MODEL DESIGNATOR | OVERALL STABILITY |
|--------------------------|------------------|-------------------|
| 40kHz~150MHz | 1210A | ± 25PPM |
| | 1210B | ± 50PPM |
| | 1210C | ±100PPM |

Stability options are inclusive of: Calibration Tolerance at 25°C, Operating Temperature Range, Supply Voltage Change, Load Change, Ageing, Shock & Vibration.

| Parameter | Code | Value | Unit | Remarks |
|-----------------------------|--------|----------------------|--------|---|
| Storage Temperature Range | Tstg | -55 to +125 | °C | |
| Operating Temperature Range | Тор | 0 to +70 | °C | |
| Input Voltage | Vcc | +5 | V DC | ±10% |
| Max Input Current | ICC | 20 40 60 | mA Max | 500 kHz to 20MHz 20.1MHz to 70MHz 70.1MHz to 150MHz |
| Duty Ratio | SY | 40:60 | % | At 50% VDD |
| "O" Level | Vol | 0.5 | V DC | Max |
| "1" Level | Vон | 4.5 | V DC | Min |
| Max Rise/Fall Time | Tr:Tf | 10 6 4 | nS Max | 500 kHz to 20MHz 20.1MHz to 70MHz 70.1MHz to 150MHz |
| Start-Up Time | TSTART | 5 | mS | |
| Fan-Out (Load) | | 15pF Min 1-10 TTL | | HCmos TTL |

MECHANICAL

Drop Test - Drop Module onto a hard wooden surface from 20cm 3 times

Shock Test - 1500g (Peak) 0.35mS (V/2Sine Wave) 5 Times

Vibration Test - Vibrations with an amplitude of 3mm and a sweep from 10-55 Hz duration 1 minute shall be applied for 2 hours in each of the x,y, & z axes

ENVIRONMENTAL

Solder Heat - Immerse pins to within 1mm of glass stand-offs in solder bath of 280°C ±10°C for 10 secs

Life Test - After exposure to +125°C (Power Applied) for 1000 Hrs

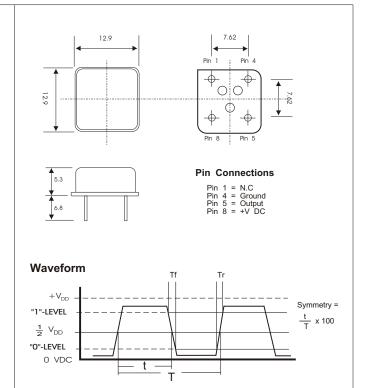
Cold Resistance - After exposure to -40°C for 2 hrs

Humidity~ - After exposure to +40°C 90-95% RH for 48 Hrs

Thermal Shock - After 10 cycles of exposure to -55°C & 125°C with 10mins exposure at each extreme Fine Leak - Helium leak detector, pressure 5kg.f/cm³ for 2 Hrs, leakage less than 1 x 10⁸ Atm.cc/Sec

TITLE: AEL 1210 Series Crystal Oscillator 8-Pin DIL UNIVERSAL O/P (Hcmos & TTL) 500kHz to 100MHz

| AEL PART N° | Issue Number | Issue Date | Approved | | |
|-----------------------|-------------------------------|------------|----------|--|--|
| | 5 | 19/03/2000 | GR | | |
| General Specification | Frequency Increased to 150MHz | | | | |







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