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

Note 1 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	٥°	
Operating Temperature Range	Тор	0 to +70	°C	
Input Voltage	Vcc	+5	V DC	±10%
	ICC	20	mA Max	500 kHz to 20MHz
Max Input Current		40		20.1MHz to 70MHz
		60		70.1MHz to 150MHz
Duty Ratio	SY	40:60	%	At 50% V <sub>DD</sub>
"O" Level	Vol	0.5	V DC	Max
"1" Level	Vон	4.5	V DC	Min
		10		500 kHz to 20MHz
Max Rise/Fall Time	Tr:Tf	6	nS Max	20.1MHz to 70MHz
		4		70.1MHz to 150MHz
Start-Up Time	TSTART	5	mS	
Fan-Out (Load)		15pF Min		HCmos
		1-10 TTL		TTL

## **MECHANICAL**

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

Shock Test - 1500g (Peak) 0.35mS (1/2Sine 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**

 $\textbf{Solder Heat} \quad \text{- Immerse pins to within 1mm of glass stand-offs in solder bath of 280°C} \quad \pm 10°C \text{ for 10 secs}$ 

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

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

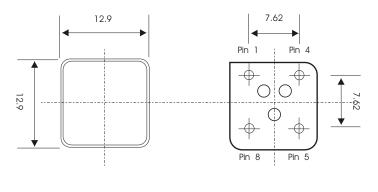
Humidity - After exposure to +40°C 90-95% RH for 48 Hrs

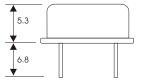
Thermal Shock - After 10 cycles of exposure to -55°C & 125°C with 10mins exposure at each extreme

Fine Leak - Helium leak detector, pressure 5kg.f/cm³ for 2 Hrs, leakage less than 1 x 10.8 Atm.cc/Sec

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

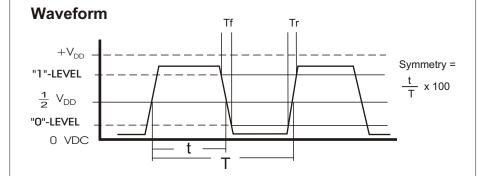
AEL PART N°	Issue Number	Issue Date	Approved
General Specification	5	19/03/2000	GR
	Frequency I	ncreased to 1	50MHz





## **Pin Connections**

Pin 1 = N.C Pin 4 = Ground Pin 5 = Output Pin 8 = +V DC







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