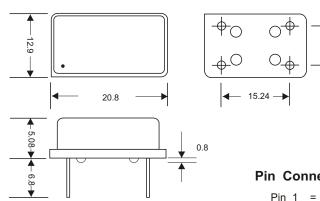
FREQUENCY RANGE	OVERALL STABILITY OPTIONS				
400kHz ~ 160MHz	9710A = 25PPM 9710B = 50PPM 9710C = 100PPM				
 Stability options are inclusive of: C Change, Load Change, Ageing, Shoo 		ce at 25°C, Operati	ng Tempera	ture Range, Supply Volt	
Parameter	Code	Value	Unit	Remarks	
Storage Temperature Range	Tstg	-65 to +125	°C		
Operating Temperature Range	Тор	0 to +70	°C		
Input Voltage	Vcc	+5	V DC	10%	
Max Input Current	ICC	20 40 50	mA Max	500 kHz to 20MHz 20.1MHz to 80MHz 80.1MHz to 160MHz	
Duty Ratio	SY	50:50 10%	%	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 100MHz	
Start-Up Time	TSTART	5	mS		
Fan-Out (Load)		15pF Min 1-10 TTL		HCmos TTL	



Pin Connections

Pin	1	=	NC
Pin	7	=	Ground

.62-



Waveform Τf Tr Drop Test - Drop Module onto a hard wooden surface from 20cm 3 times $+V_{DD}$ Symmetry = Shock Test - 1500g (Peak) 0.35mS (1/2Sine Wave) 5 Times "1"-LEVEL Vibration Test - Vibrations with an amplitude of 3mm and a sweep from 10-55 Hz duration 1 minute shall be applied t x 100 for 2 hours in each of the x,y, & z axes 1.4V DC **ENVIRONMENTAL** Solder Heat - Immerse pins to within 1mm of glass stand-offs in solder bath of 280°C ±10°C for 10 secs "O"-LEVEL 0 VDC Life Test - After exposure to +125°C (Power Applied) for 1000 Hrs t Cold Resistance - After exposure to -40°C for 2 hrs Humidity - After exposure to +40°C 90-95% RH for 48 Hrs Module 'D' Airtech 2 Jenner Road, Crawley Thermal Shock - After 10 cycles of exposure to -55°C & 125°C with 10mins exposure at each extreme ISOQAR Fine Leak - Helium leak detector, pressure 5kg.f/cm³ for 2 Hrs, leakage less than 1 x 10⁸ Atm.cc/Sec QUALITY **FIEL** Crystals Limited ASSURE W. Sussex. RH10 2GA TITLE: AEL 9710 Series Oscillator 14-Pin DIL UNIVERSAL O/P (Hcmos & TTL) 400kHz to 160MHz Tel: 01293 524245 Certificate No. 733/95 www.aelcrystals.co.uk Fax: 01293 524888 **AEL Stock Code Issue Number Issue Date** Approved 17/06/97 4 GR (C)Not to be reproduced without permission of AEL Crystals Ltd