

FREQUENCY: 500kHz to 100MHz
OVERALL STABILITY: +/-100PPM

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

ELECTRICAL

Parameter	Code	Value	Unit	Remarks
Storage Temperature Range	Tstg	-65 to +125	°C	
Operating Temperature Range	Top	0 to +70	°C	
Input Voltage	Vcc	+5	V DC	± 10%
Max Input Current	ICC	20	mA	500 kHz to 20MHz
		40	mA	20.1MHz to 70MHz
		60	mA	70.1MHz to 100MHz
Duty Ratio	SY	45-55	%	At 50% Vcc
"0" Level	Vol	0.5	V DC	Max
"1" Level	Voh	4.5	V DC	Min
Max Rise/Fall Time	Tr/Tf	10	nS	500 kHz to 20MHz
		6	nS	20.1MHz to 70MHz
		4	nS	70.1MHz to 100MHz
Start-Up Time	TSTART	5	mS	
		15pF Min 1-10 TTL		HCmos TTL

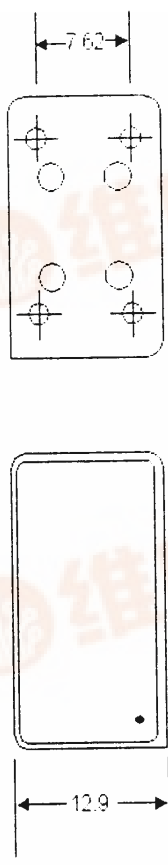
MECHANICAL

- Drop Test - Drop Module onto a hard wooden surface from 20cm 3 times
- Shock Test - 1500g (Peak) 0.35ms (Rising 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

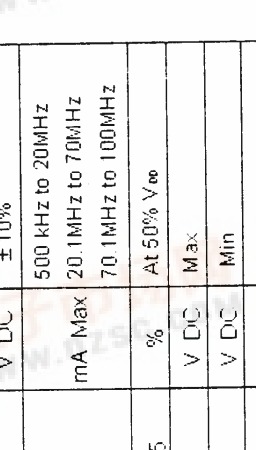
- Solder Heat - Immerse pins to within 1mm of glass stand-offs in solder bath of 280°C ± 10°C for 10 secs
- Life Test - After exposure to +125°C (Power Applied) for 1000 Hrs
- Gold Resistance - After exposure to -40°C for 2 hrs
- Humidity - After exposure to +40°C 90-95% RH for 48 Hrs
- Thermal Shock - After 10 cycles of exposure to -55°C & 125°C with 10mins exposure at each extreme
- Fine Leak - Helium leak detector, pressure 5kg/cm² for 2 Hrs, leakage less than 1 x 10⁻⁸ atm-cc/Sec

TITLE:	Crystal Oscillator 14-Pin DIL UNIVERSAL O/P (Hcmos & TTL) 500kHz to 100MHz		
AEL PART N°	AEL 9710CSN	Issue Number	3
		Issue Date	21/08/95
		Approved	GR



Pin Connections

- Pin 1 = N.C
- Pin 7 = Ground
- Pin 8 = Output
- Pin 14 = +V DC



SY 45-55

Vol 0.5

Voh 4.5

Tr/Tf 10/6/4

TSTART 5

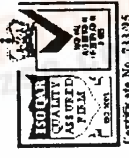
15pF Min

1-10 TTL

HCmos

TTL

— S7L-703 TO 842 —



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