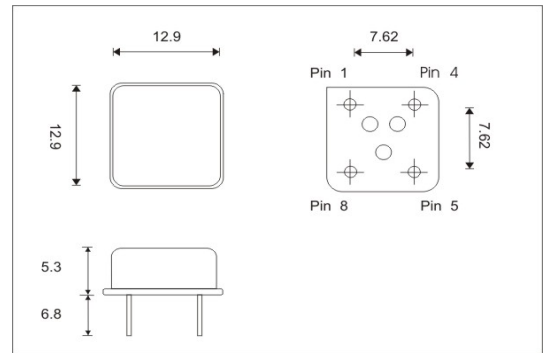




AEL Crystals Limited 12-Series General Oscillator Specifications

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
<small>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</small>				
TITLE	AEL 12-series oscillator			
Part Number	Contact Sales Office			
Stock Number	Contact Sales Office			
Issue Date	13/03/2006			
Issue Number	1			



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
<small>(Pin 1 has internal pull up resistor to allow it to float High)</small>	

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	



Module "D", Airtech II
Jenner Road, Manor Royal
Crawley RH10 9GA

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