

Ordering Clock Oscillators from Hy-Q could not be easier because all the necessary information is contained on this sheet. To place an order or to receive a quotation, simply phone, fax or e-mail our Sales Office with the following information and nominal frequency required:-

Package Style	Temperature Range	Frequency Stability
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Example: 8A30 REPRESENTS: Package style Half size, temperature range -40 to +85°C, frequency stability ±30 ppm over the operating temperature range.

8	-40 to +85°C	±30ppm over operating range
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The Hy-Q 3 column ordering system has been incorporated into this easy ordering guide.

First Column Package style	Second Column Temperature range (°C)	Third Column Frequency stability (±ppm)
Half size 8	A -40 to +85	15 20
	B -30 to +75	25 30
Full size 14	C 0 to +70	50 100


NOTE:

Add suffix *T* to 3 column code if tri-state operation is required.
Other stabilities and temperature ranges are available on request.

SPECIFICATION








Frequency
Supply Voltage (VDD)
Supply Current
Output Waveform
Logic Levels
Fan Out
Mark Space Ratio
Fall & Rise Times
Tri-State (see NOTE)

PERFORMANCE














1.000MHz to 87.000MHz
+5.0V ±10% (3.3V )
15 to 50mA (dependent upon nominal frequency)
Squarewave HCMOS/TTL compatible
Low<+0.4V High>+4.5V (VDD = +5.0V)
50pF or 10 LSTTL Gates to 50MHz 30pF or 10LSTTL Gates>50MHz
55:45 to 45:55 at +2.5V (60:40 to 40:60 at +1.4V)
4ns maximum (20% to 80% of VDD)
Logic level low = Disabled Logic level high = Active


This table shows the stabilities which are available and are inclusive of ageing over 1 year, calibration at +25°C and change with supply volts:


MAXIMUM DEVIATION (ppm)


TEMPERATURE °C	±100	±50	±30	±25	±20	±15
A -40 to +85	1	4	5			
B -30 to +75	2	3	4	5		
C 0 to +70		2	3	4	5	

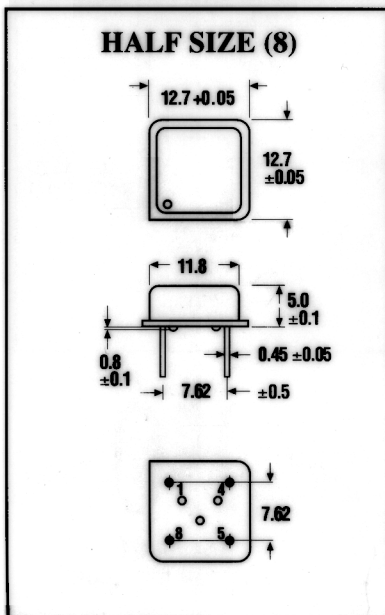
SYMBOLS SHOW DEGREE OF DIFFICULTY:

 = Very little difficulty

 = Consult Sales Office for availability

 = Not available



**← HALF SIZE
DIL(8)**

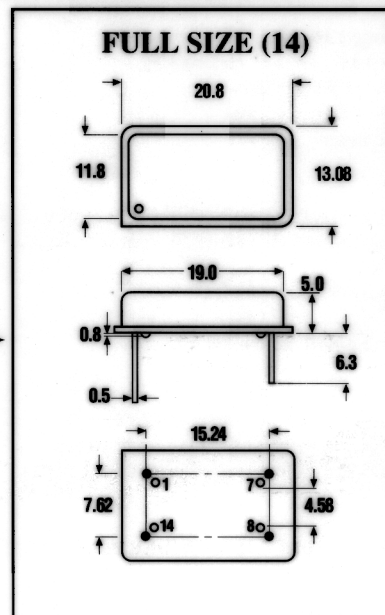
Pin Connections

- 1 Enable/Disable or no connection
- 4 Ground/Case
- 5 Output frequency
- 8 Supply voltage

**FULL SIZE →
DIL(14)**

Pin Connections

- 1 Enable/Disable or no connection
- 7 Ground/Case
- 8 Output frequency
- 14 Supply voltage



**Standard delivery
15 working days
5, 7 or 10 day
priority despatch**

ISO

ISO9001
Reg. No.FM 1995