

DOUBLE SEALED, HIGH PRECISION, WIDE RANGE FREQUENCY, 5.0VDC TTL/HCMOS FULL-SIZE DIP
CRYSTAL CLOCK OSCILLATORS

ADCO



FEATURES:

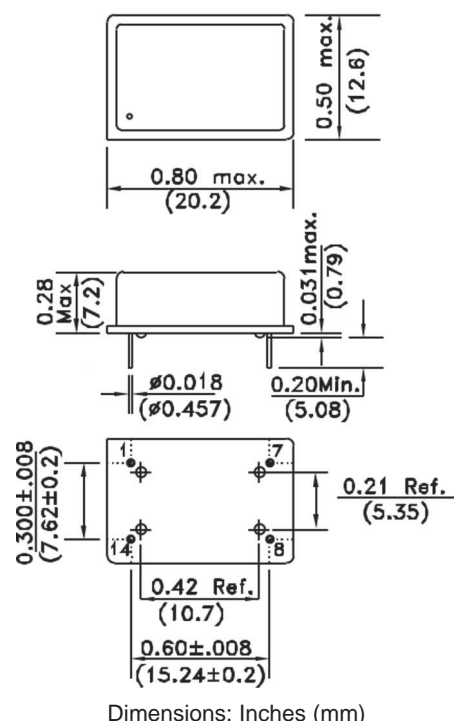
- Double sealed DIP package.
- Tight overall frequency stability.
- Enable/Disable and extra output options.
- High-precision UM internal crystal.
- Wide frequency range.

APPLICATIONS:

- High-precision clock signals for microprocessors and digital circuits.
- Data telecommunications and networking.

STANDARD SPECIFICATIONS

PARAMETERS	ADCO	ADCO1
Frequency Range (F ₀)	20 MHz - 150 MHz	12 MHz - 35 MHz
Operating Temperature (T _{OPR})	0°C to +70°C (see options)	
Storage Temperature (T _{STO})	-40°C to +85°C	
Frequency Stability (DF/ F ₀)		
-vs- Temperature	±20 ppm max. (see options)	
-vs- Supply	±0.5 ppm max. (V _{dd} ± 5%)	
-vs- Load	±0.2 ppm max. (± 10% load)	
-vs- Aging	±1.0 ppm max (first year)	
Supply Voltage (V _{dd})	+5 Vdc ± 5%	
Supply Current (I _{dd})	20mA max.	40mA max.
Duty cycle or Symmetry	40/60% max. measured at 1/2V _{dd} or 1.4VDC	
Rise and Fall times (Tr/Tf)	10ns max. for F ≤ 24MHz; 5ns max. for F > 24MHz	
Output	TTL/HCMOS Square Wave	
Output and E/D options (pin 1)	No connection or E/D option (-A)	Output 2
Output load	2TTL or 15PF	
Output voltage	VOH = 0.9 * VDD min. VOL = 0.4VDC max.	
Enable/Disable option (pin 1)	VIL= 1.68V max., VIH = 2.2V min.	N/A
Start-up time	10ms max.	



PIN NO.	ADCO	ADCO1
1	NC or E/D	OUTPUT2
7	GND	GND
8	OUTPUT	OUTPUT1
14	VDD	VDD

(*) Pin 1 has internal pull-up resistor.

Environmental and mechanical specifications, Group 1.

ORDERING OPTIONS

ADCOX - Frequency - Temperature - Overall Frequency Stability - Pin 1 option - Value Added

Blank or 1

XX.XXXX MHz

-D for -10°C to +60°C
-E for -20°C to +70°C
-F for -30°C to +70°C
-N for -30°C to +85°C
-L for -40°C to +85°C

Blank = N/C
A = Enable/Disable(**)

-R5 for ± 5 ppm max.
-Y for ± 10 ppm max
-R15 for ± 15 ppm max

-G Gull Wing
-QXX (Trimmed Leads)

(**) ADCO Only

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

NOTE: Left blank if standard • All specifications and markings subject to change without notice

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