

FULL SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR



20.2 x 12.6 x 5.08 mm

ACO

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



RoHS
Compliant

FEATURES:

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tristate Enable/Disable options.
- Fast rise and fall times.
- Anti-Static packaging tube.

APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits.
- High output drive capability applications.

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.320		200.000	MHz	
Operating Temperature		0		+70	°C	See options
Storage Temperature		-55		+125	°C	
Overall Frequency Stability		-100		+100	ppm	See options
Supply Voltage (Vdd)		4.5	5.0	5.5	V	
Input Current	32.000kHz ~ 24.000MHz			30	mA	
	24.001MHz ~ 49.999MHz			45		
	50.000MHz ~ 79.999MHz			70		
	80.000MHz ~ 200.000MHz			85		
Symmetry @ 1/2Vdd for HCMOS or @ 1.4Vdc for TTL	320.000kHz ~ 49.999MHz	45		55	%	See options
	50.000MHz ~ 200.000MHz	40		60		
Rise and Fall Time (Tr/Tf)	320.000kHz ~ 24.000MHz			10	ns	
	24.001MHz ~ 200.000MHz			5		
	24.001MHz ~ 200.000MHz (50pF output load)			10		
Output Load	32.000kHz ~ 79.999MHz			15	pF	See options
				10	TTL	
	80.000MHz ~ 200.000MHz			15	pF	
				5	TTL	
Output Voltage	VOH	0.9*Vdd			V	
	VOL			0.1*Vdd	V	
Tri-state Function (Option A)	VIH	2.2		----	V	"1" or Open: Oscillation
	VIL			0.8	V	"0": Output disable (Hi Z)
Output Enable time				4	ms	For option A only
Output Disable time				100	ns	For option A only

* Overall frequency stability includes initial tolerance and temperature stability.

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PART IDENTIFICATION: (left blank if standard)

ACO- MHz------

Frequency in MHz
e.g. 24.576MHz
14.31818MHz
26.000MHz

Pin form
G: Gull Wing
G3: Gull Wing
Q25: 0.25" (6.35)
Q20: 0.20" (5.08)
Q15: 0.15" (3.81)

Operating Temp.
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Freq. Stability
J*: ± 20 ppm
R: ± 25 ppm
K: ± 30 ppm
H: ± 35 ppm
C: ± 50 ppm

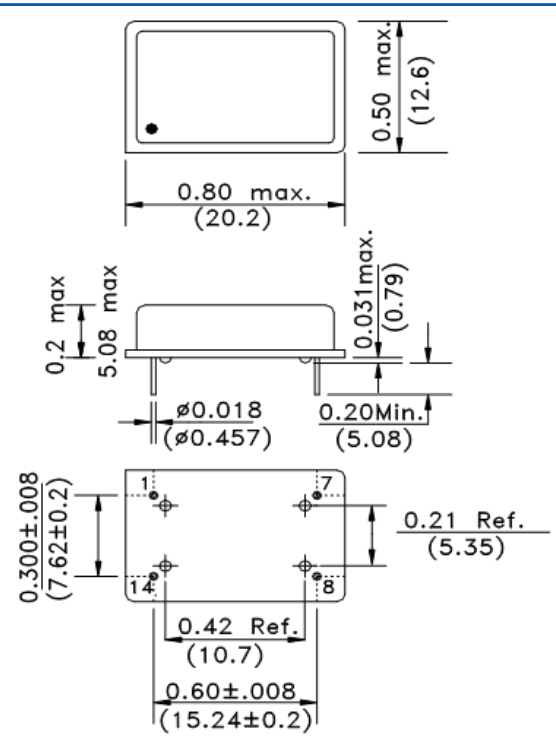
Symmetry
S: 45/55%
T1: 47.5/52.5%

Tri-state
A: Tri-state on pin 1

Output Load
50: 50pF (25≤F≤100MHz only)

* Temp option I, D, E only

OUTLINE DIMENSIONS:



The height of the package vary depending on the frequency >100MHz. Please contact ABRACON for the height information for F>100MHz.

Pin	Function
1	Tri-State/NC
7	Case GND
8	Output
14	Vdd

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 7 and 14.

Dimensions: inches (mm)

Packaging
25pcs /tube

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