

# CRYSTAL CONTROLLED OSCILLATORS

## 8 Pin DIP ACMOS Clock Oscillator



A73

### ABSOLUTE MAXIMUM RATINGS

TABLE 1.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Storage Temperature		-65	-	135	°C	
Supply Voltage	(Vcc)	-0.5	-	7	Vdc	

### OPERATING SPECIFICATIONS

TABLE 2.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	10.0	-	157.0	MHz	
Total Frequency Tolerance		-100	-	100	ppm	1
Operating Temperature Range		-55	-	125	°C	
Supply Voltage	(Vcc)	4.75	5.00	5.25	Vdc	
Supply Current	(Icc)	-	-	70	mA	
Jitter (BW=10Hz to 20MHz)		-	-	5	ps rms	
Jitter (BW=12kHz to 20MHz)		-	-	1	ps rms	
SSB Phase Noise at 10Hz offset		-	-60	-	dBc/Hz	
SSB Phase Noise at 100Hz offset		-	-90	-	dBc/Hz	
SSB Phase Noise at 1KHz offset		-	-125	-	dBc/Hz	
SSB Phase Noise at 10KHz offset		-	-135	-	dBc/Hz	
SSB Phase Noise at 100KHz offset		-	-140	-	dBc/Hz	

### ACMOS OUTPUT CHARACTERISTICS

TABLE 3.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
LOAD		-	-	50	pF	
Voltage (High)	(Voh)	4.40	-	-	Vdc	
Voltage (Low)	(Vol)	-	-	0.44	Vdc	
Current (High)	(Ioh)	-24	-	-	mA	
Current (Low)	(Iol)	-	-	24	mA	
Duty Cycle at 50% of Vcc (10 to 50 MHz)		45	50	55	%	
Duty Cycle at 50% of Vcc (>50 to 133 MHz)		40	50	60	%	
Rise / Fall Time 10% to 90%		-	1.5	3	nS	

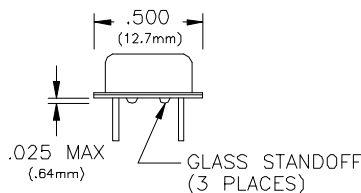
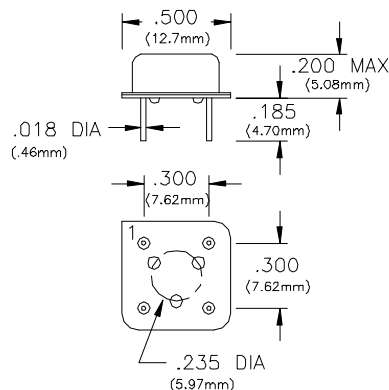
### PACKAGE CHARACTERISTICS

TABLE 4.0

Package	Hermetically sealed, metal package.
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Note:

- Inclusive of calibration, frequency vs. temperature stability, supply voltage change, load change, shock and vibration, 15 years aging.



Pin	Connection
1	N/C
2	Ground
3	Output
4	Vcc

Dimensional Tolerance:  
±.005 (.127mm)

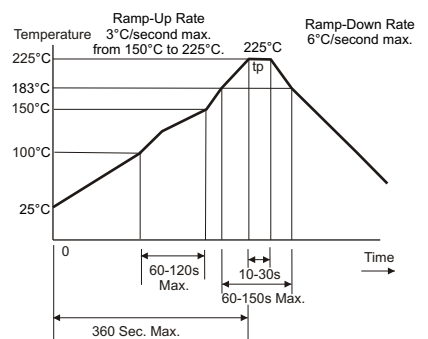
### DESCRIPTION

The Connor-Winfield A73 is a hermetically sealed, 5.0V, Crystal Controlled Oscillator (XO) CMOS/TTL Compatible. The A73 is designed for applications requiring a wide temperature range.

### FEATURES

- 5.0V OPERATION
- LOW JITTER <1ps RMS
- FREQUENCY TOLERANCE ±100ppm
- TEMPERATURE RANGE: -55 to 125°C
- HERMETICALLY SEALED DIP PACKAGE
- RoHS 5/6 COMPLIANT

### SOLDER PROFILE



### ORDERING INFORMATION

A73 - 50.00MHz

ACMOS  
CLOCK  
SERIES

CENTER  
FREQUENCY

Specifications subject to change without notice.