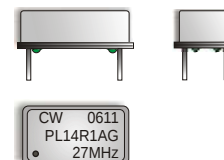


CRYSTAL CONTROLLED OSCILLATORS

14 PIN 5.0V TTL VCO



ABSOLUTE MAXIMUM RATINGS

TABLE 1.0

PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Storage Temperature		-40	-	85	°C	
Supply Voltage	(Vcc)	-0.5	-	7	Vdc	
Control Voltage	(Vc)	-0.5	-	7	Vdc	

OPERATING SPECIFICATIONS

TABLE 2.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Frequency Range	(Fo)	0.100	-	76.923	MHz	
Frequency Stability		-1.0	-	1.0	%	
Operating Temperature Range		0	-	70	°C	
Supply Voltage	(Vcc)	4.75	5.0	5.25	Vdc	
Supply Current	(Icc)	-	35	80	mA	
SSB Phase Noise at 1KHz offset		-	-80	-	dBc/Hz	
SSB Phase Noise at 10KHz offset		-	-100	-	dBc/Hz	
SSB Phase Noise at 25KHz offset		-	-105	-	dBc/Hz	
SSB Phase Noise at 100KHz offset		-	-115	-	dBc/Hz	

FREQUENCY CONTROL

TABLE 3.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Control Voltage Range	(Vc)	0.0	2.5	5.0	Vdc	1
Deviation @ 25°C (0 volts on pin 1)		-2	-3	-4	%	2
Deviation @ 25°C (5 volts on pin 1)		2	3	4	%	2

TTL OUTPUT CHARACTERISTICS

TABLE 4.0

PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
LOAD		-	-	10	TTL	
Voltage (High)	(Voh)	2.4	-	-	Vdc	
(Low)	(Vol)	-	-	0.5	Vdc	
Current (High)	(Ioh)	-16	-	-	mA	
(Low)	(Iol)	-	-	16	mA	
Duty Cycle at 50% of Vcc		45	50	55	%	
Rise / Fall Time 10% to 90%		-	5	10	nS	

PACKAGE CHARACTERISTICS

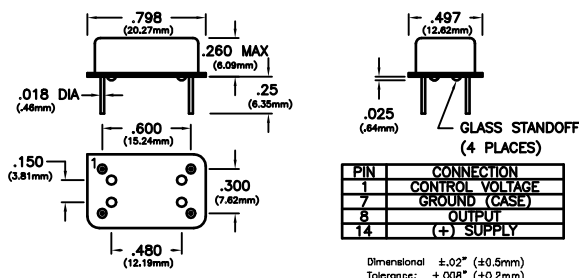
TABLE 5.0

Package	Hermetically sealed, metal package.
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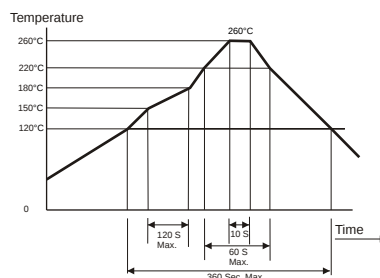
Note:

- 1) Positive transfer characteristics. Center frequency is between 2V to 3V.
- 2) Referenced to Fo at T=25°C.

Package Outline and Pin Connections



Solder Profile



PL14R1AG Series

DESCRIPTION

The Connor-Winfield PL14R1AG series is a 5.0V TTL, 14 Pin DIP hermetically sealed, Voltage Controlled Oscillator (VCO). The PL14R1AG is designed for applications requiring large frequency deviation.

FEATURES

- 5.0V OPERATION
- FREQUENCY RANGE:
100 KHz to 76.923 MHz
- FREQUENCY STABILITY: ±1%
- TEMPERATURE RANGE: 0 to 70°C
- FREQUENCY DEVIATION: ±3% TYPICAL
- HERMETICALLY SEALED PACKAGE
- RoHS COMPLIANT / LEAD FREE

ORDERING INFORMATION

PL14R1AG - 27 MHz

VCO SERIES CENTER FREQUENCY

Specifications subject to change without notice.
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