THE CONNOR-WINFIELD CORP.

2111 COMPREHENSIVE DRIVE. AURORA II. 60505 FAX (630) 581-5040. PHONE (630) 851-4722. www.conwin.com

SHEET PRODUCT DATA

CRYSTAL CONTROLLED OSCILLATORS

SURFACE MOUNT 3.3V LVPECL CLOCK





ABSOLUTE MAXIMUM RATINGS

ABOOLOTE MAXIMOM NATINGO						IADLL I.U
PARAMETER	UNITS	MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Storage Temperature		-40	ī	85	°C	
Supply Voltage	(Vcc)	-0.5	-	7.0	Vdc	

OPERATING SPECIFICATIONS						TABLE 2.0
PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
Center Frequency	(Fo)	16.384	-	200	MHz	
Total Frequency Tolerance		-20		20	ppm	1
Operating Temperature Range		0	-	70	°C	
Supply Voltage	(Vcc)	3.135	3.3	3.465	Vdc	
Supply Current	(Icc)	-	-	60	mA	
Jitter (BW=10Hz to 20MHz)		-	-	5	pS RMS	
Jitter (BW=12kHz to 20MHz)		-	_	1	pS RMS	

PECL OUTPUT CHARACTERISTICS

						IADEL 0.0
PARAMETER		MINIMUM	NOMINAL	MAXIMUM	UNITS	NOTE
LOAD		-	-	50	Ohms	2
Voltage (High)	(Voh)	2.275	-	-	Vdc	
(Low)	(Vol)	-	-	1.68	Vdc	
Duty Cycle		45	50	55	%	3
Rise / Fall Time 20% to 80%		-	-	1	nS	

PACKAGE CHARACTERISTICS

Package	Non-hermetic package consisting of an FR4 substrate with grounded metal
	cover.

PROCESS RECOMMENDATIONS

112001111121121110	TABLE 5.0
Solder Reflow	The component solder used internal to this device has a melting point of
	221 C. The peak temperature inside the device should be less than or
	equal to 220 C for a maximum of 10 seconds
Wash	Ultrasonic cleaning is not recommended.

- Includes calibration, deviation over temperature, supply and load variations, shock, vibration and 20 years aging.
- Output must be terminated into 50 ohms to Vcc 2V or Thevenin equivalent Duty Cycle measured at 1.977V

FPLD54T

DESCRIPTION

TARLE 10

TABLE 3.0

TABLE 4.0

The Connor-Winfield FPLD54T is a fixed frequency, surface mount Crystal Controlled Oscillator (XO) designed for applications requiring low jitter and a ±20ppm overall stability. Operating at 3.3V supply voltage, the FPLD54T provides LVPECL Differential Outputs.

FEATURES

3.3V OPERATION

LVPECL DIFFERENTIAL OUTPUTS

LOW JITTER <1pS RMS

OVERALL FREQUENCY TOLERANCE: ±20ppm

TEMPERATURE RANGE: 0 to 70°C

SURFACE MOUNT PACKAGE

TAPE AND REEL PACKAGING

ORDERING INFORMATION

FPLD54T - 155.52MHz CLOCK_ SERIES CENTER FREQUENCY

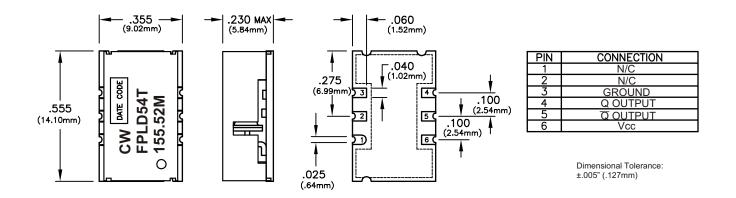
Specifications subject to change without notice.



2111 COMPREHENSIVE DRIVE. AURORA, IL 60505. FAX (630) 581-5040. PHONE (630) 851-4722. www.conwin.com

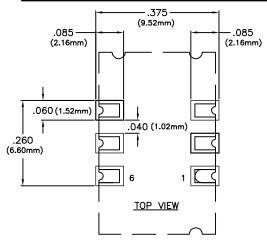
PRODUCT DATA SHEET

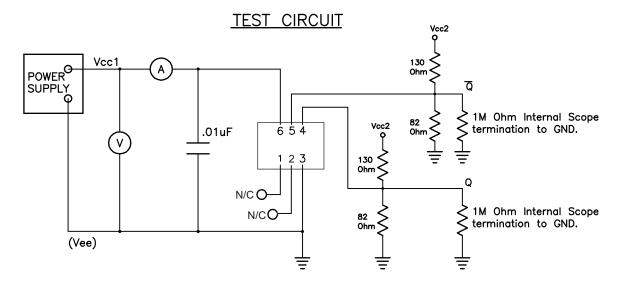
CRYSTAL CONTROLLED OSCILLATORS



OUTPUT WAVEFORM

SUGGESTED PAD LAYOUT





Specifications subject to change without notice.