

Factory Prog. 4 Output CMOS TCXO

- Full Custom Multi-Frequency Programmable Osc
- Reduced EMI by turning off unused output
- Factory Programmable
- Industry-standard packaging saves on board space
- Mult. outputs 1 pkg vs. mult. osc & assoc. comp.
- Performs well under all conditions
- Increased Integration

Applications

- High-end multimedia
- Communications
- Industrial
- A/D converters
- Consumer Applications
- Low tolerance applications
- Low-power applications

Series**CCT4C****Part Numbering Example: CCT4C 1A 200.0 / 150.0 / 125.0 / 100.0**

CCT4C	1A	200	150	125	100
SERIES	PACKAGE STYLE	FREQUENCY A	FREQUENCY B	FREQUENCY C	FREQUENCY D
	1A=14 pin dip 9=9.6x11.4 SMD	0.2 - 200 MHz	0.2 - 200 MHz	0.2 - 200 MHz	0.2 - 200 MHz

Specifications:	Min	Typ	Max	Unit
Frequency Range:				
Output A CMOS	0.2		200	MHz
Output B CMOS	0.2		200	MHz
Output C CMOS	0.2		200	MHz
Output D CMOS	0.2		200	MHz
Available Stability Options:	-2.5		2.5	ppm
Supply Voltage:	3.135	3.3	3.465	V
Operating Temperature Range Options:	-40		85	°C
Storage Temperature:	-55		125	°C
Duty Cycle:	40 45		60 55	% %
Start-Up Time:		3	10	mS
Aging (PPM/1st Year): Ta=25C, Vdd=3.3V			±1	ppm
Static Discharge Voltage Mil-Std 883, method 3015	2000			V
Output Load: CMOS, < 40 MHz CMOS, ≥ 40 MHz			30 15	pF pF
Output Level:	CMOS			
Packaging:	25 / Tube Tape & Reel			14 pin SMD

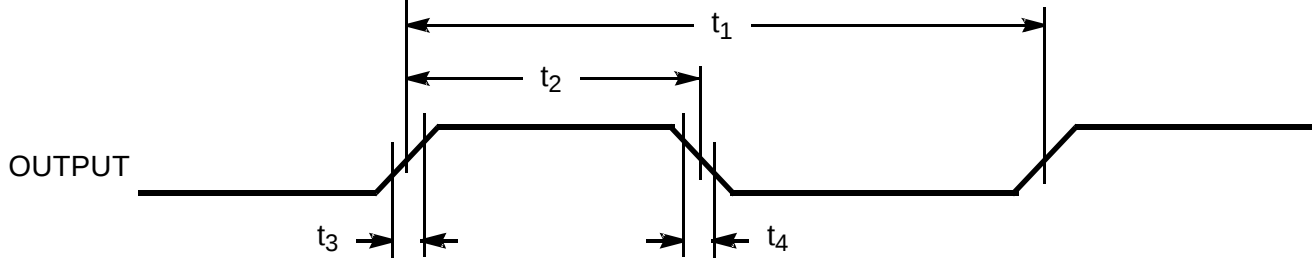
Notes: Recommended .01 µF bypass capacitor from Vcc to GND. Capacitor should be as close to oscillator as possible.

Cardinal Components, Inc.155 Route 46 West
Wayne, NJ 07470

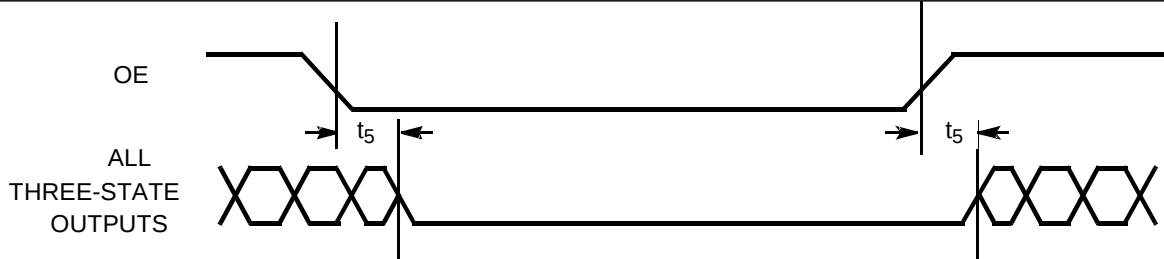
Rev: M-090414-14

**TEL:** (973)785-1333**E-MAIL:** sales@cardinalxtal.com**WEB:** http://www.cardinalxtal.com

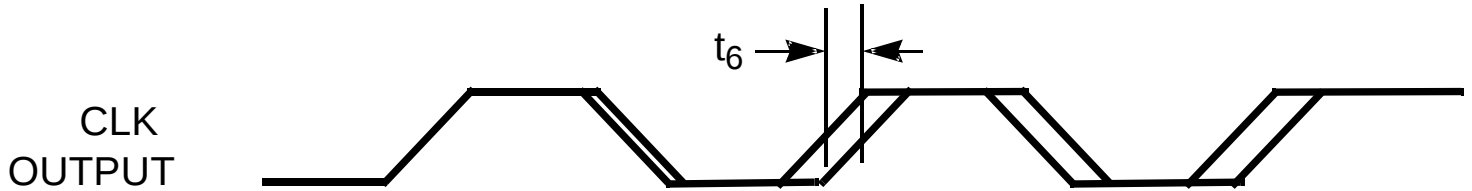
ALL OUTPUTS, DUTY CYCLE, RISE/FALL TIME



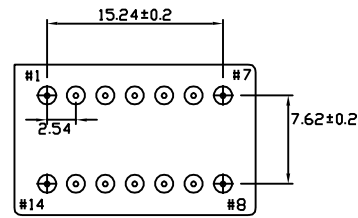
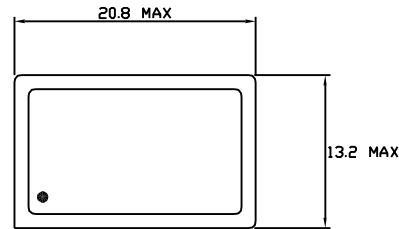
OUTPUT 3-STATE TIMING



CLK OUTPUT JITTER



DIP

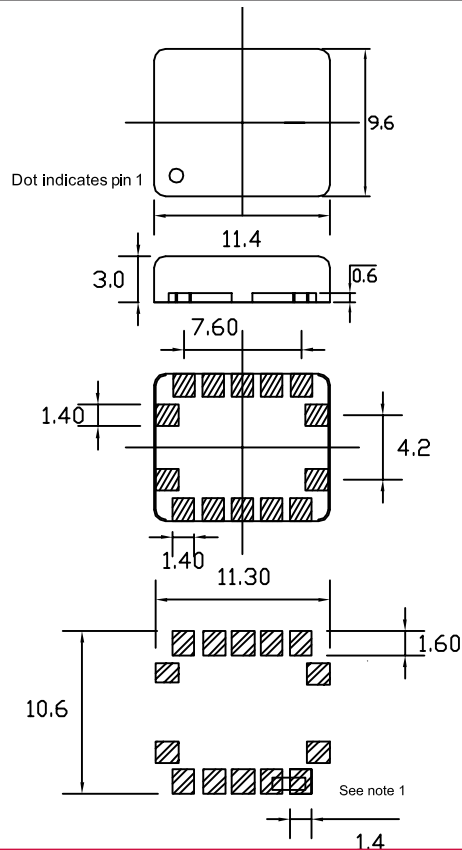


Dimensions are in mm

PIN FUNCTION

PIN 1 OE (CONNECT TO VDD)
 PIN 2 SUSPEND (CONNECT TO GND)
 PIN 3 VDD
 PIN 4 CLK C OUTPUT
 PIN 5 CONNECT TO PIN 6
 PIN 6 CONNECT TO PIN 5
 PIN 7 GND
 PIN 8 FACTORY USE (MAKE NO CONNECTION)
 PIN 9 CLK D OUTPUT
 PIN10 FACTORY USE (MAKE NO CONNECTION)
 PIN 11 FACTORY USE (MAKE NO CONNECTION)
 PIN 12 FACTORY USE (MAKE NO CONNECTION)
 PIN 13 CLK A OUTPUT
 PIN 14 CLK B OUTPUT

SMD



PIN FUNCTION

PIN 1 FACTORY USE (MAKE NO CONNECTION)
 PIN 2 OE
 PIN 3 VDD
 PIN 4 CLK C OUTPUT
 PIN 5 CONNECT TO PIN 6
 PIN 6 CONNECT TO PIN 5
 PIN 7 GND
 PIN 8 FACTORY USE (MAKE NO CONNECTION)
 PIN 9 CLK D OUTPUT
 PIN10 FACTORY USE (MAKE NO CONNECTION)
 PIN 11 FACTORY USE (MAKE NO CONNECTION)
 PIN 12 FACTORY USE (MAKE NO CONNECTION)
 PIN 13 CLK A OUTPUT
 PIN 14 CLK B OUTPUT

Dimensions in mm
 Recommended solder pad layout

Note1:
 For proper operation pin 5 must be connected to pin 6