

Factory Prog. 6 Output CMOS Oscillator Applications

Series **CCE6C**

- 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.
- Lower system cost
- Increased Integration

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



Part Numbering Example: CCE6C 1A 200.0 / 150.0 / 125.0 / 100.0 / 75.0 / 12.0

CCE6C	1A	200	150	125	100	75	12
SERIES	PACKAGE STYLE	FREQUENCY A	FREQUENCY B	FREQUENCY C	FREQUENCY D	FREQUENCY E	FREQUENCY R
	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	25 - 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
Output E CMOS	25		200	MHz
Output R Fixed		12		MHz
Available Stability Options:	-50		50	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=25°C, Vdd=3.3V			±5	
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

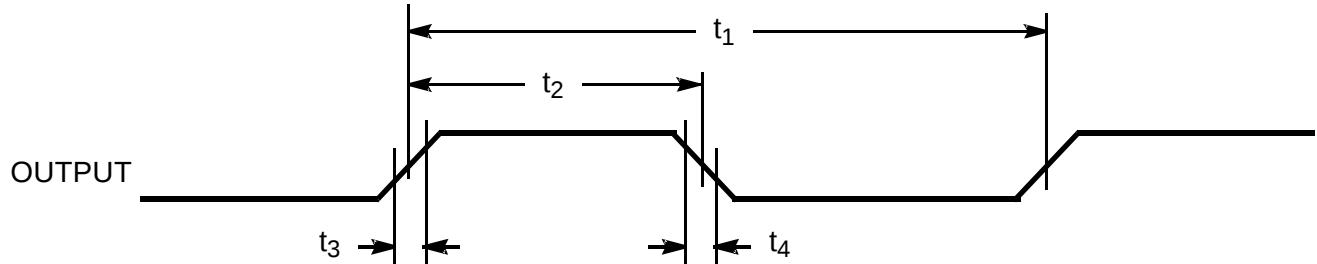


TEL: (973)785-1333

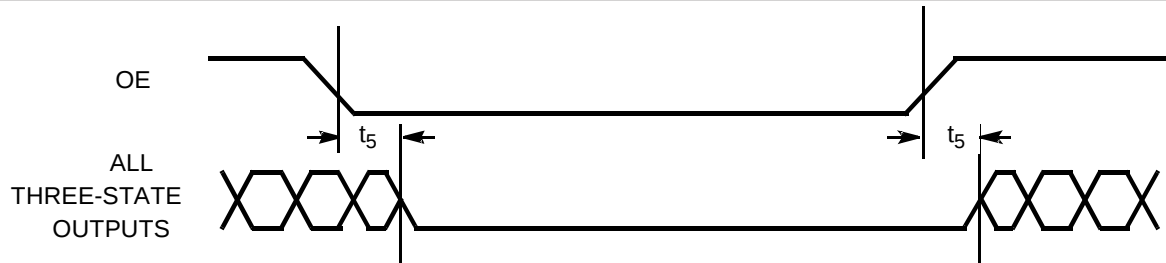
E-MAIL: sales@cardinalxtal.com

WEB: http://www.cardinalxtal.com

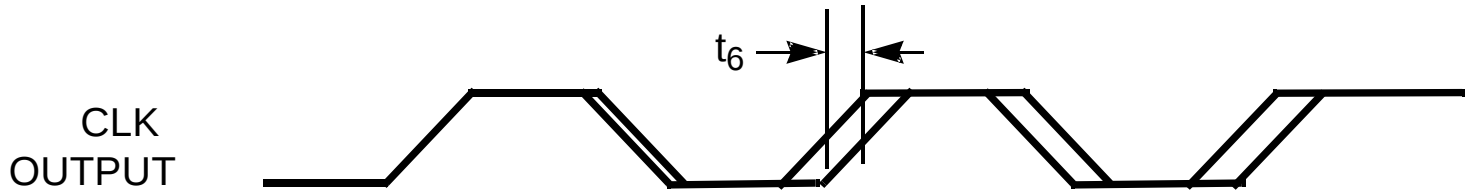
ALL OUTPUTS, DUTY CYCLE, RISE/FALL TIME



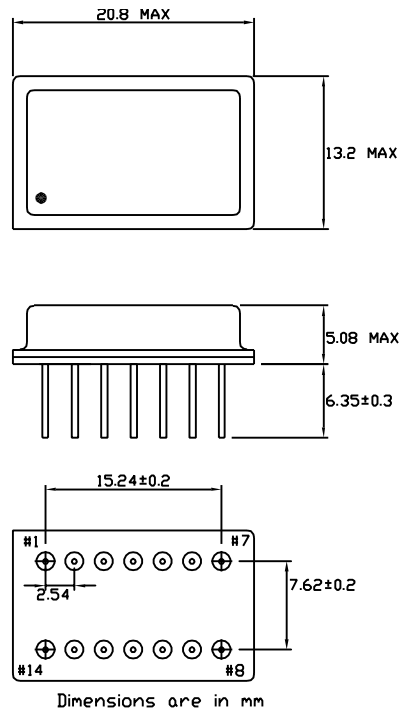
OUTPUT 3-STATE TIMING



CLK OUTPUT JITTER



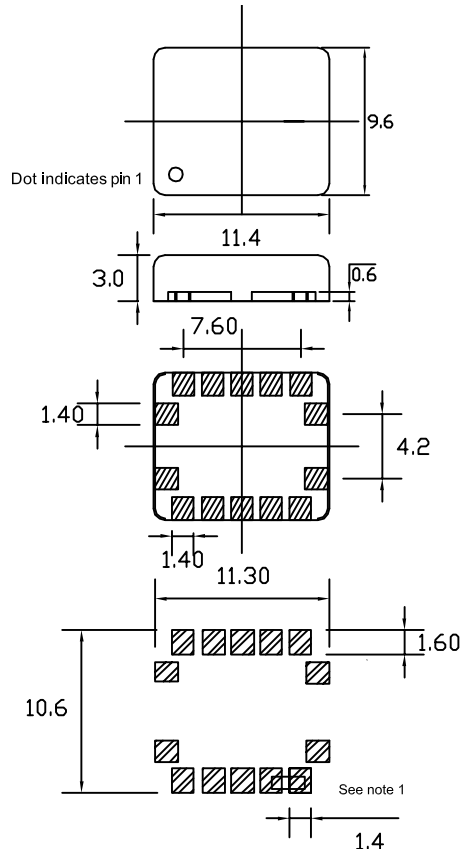
DIP



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 12 MHz REF CLOCK OUTPUT
 PIN 9 CLK D OUTPUT
 PIN10 CLK E OUTPUT
 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 12 MHz REF CLOCK OUTPUT
 PIN 9 CLK D OUTPUT
 PIN10 CLK E OUTPUT
 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