

Field Programmable Blank Oscillator

Series **CPP**

- Programmed with the PG-3000, PG-3100 field oscillator programming instrument within seconds
- Can be programmed twice
- Standard Package Options
- Also available in 2.7 V



Part Numbering Example: CPP C 1 L Z - A5 B6 - XX.XXXX TS

CPP	C	1	L	Z	A5	B6	XX.XXXX	TS
SERIES	OUTPUT	PACKAGE STYLE	VOLTAGE	ADDED FEATURES	OPERATING TEMP.	STABILITY	FREQUENCY	TRI-STATE
CPP	C = CMOS T = TTL	1 = Full Size 4 = Half Size 5 = 3.2X5 Ceramic 7 = 5X7 Ceramic 8 = PLASTIC SMD 8B = PLASTIC SMD	Blank = 5V L = 3.3 V R = 2.7	Blank = Bulk T = Tube Z = Tape and Reel	Blank = 0°C +70°C A3 = -55°C+155°C A5 = -20°C +70°C A7 = -40°C +85°C	B6 = ±100 ppm BP = ±50 ppm BR = ±25 ppm	0.500 ~133.000 MHz	TS = Tri-State PD=PowerDwn

Specifications:

Description	Min	Typ	Max	Unit
Frequency Range: Programmable to Any Discrete Frequency	0.5		133.000	MHz
Available Stability Options:	-100 -50 -25		100 50 25	ppm ppm ppm
Programmable Supply Voltage: (1–133 MHz) (1–100 MHz)	4.5 3.0	5.0 3.3	5.5 3.6	V V
Operating Temperature Range Options:	0 -20 -40		+70 +70 +85	°C °C °C
Storage Temperature:	-55		+125	°C
Aging (PPM/Year) Ta=25°C, Vdd=5/3.3V			±5	
Programmable Output Level: TTL/CMOS				
Packaging: Tape and Reel (1K per Reel) Tube				

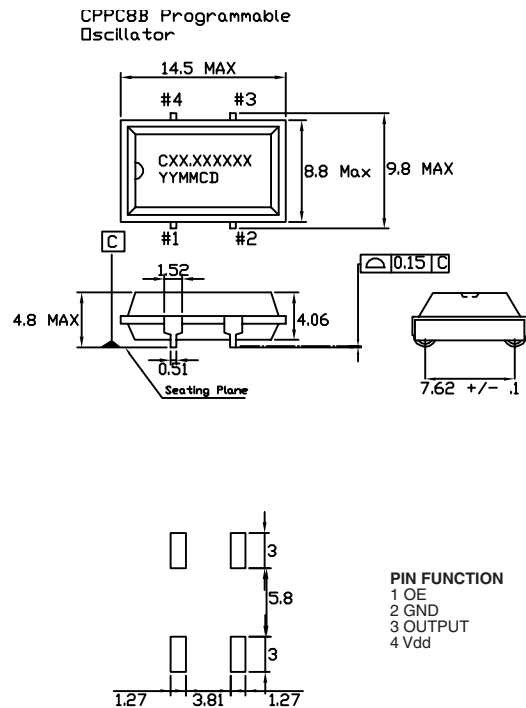
Operating Conditions:

Description	Min	Max	Unit
Vdd Supply Voltage	3.0	5.5	V
C _{TTL} Max Capacitive Load on outputs for TTL levels 4.5V–5.5V Vdd ≤ 40 MHz 4.5V–5.5V Vdd > 40–133 MHz		50 25	pF pF
C _{CMOS} Max Capacitive Load on outputs for CMOS levels 4.5V–5.5V Vdd, ≤ 66 MHz 4.5V–5.5V Vdd, >66–133 MHz 3.0V–3.6V Vdd, ≤ 40 MHz 3.0V–3.6V Vdd, >40–100 MHz		50 25 30 15	pF pF pF pF

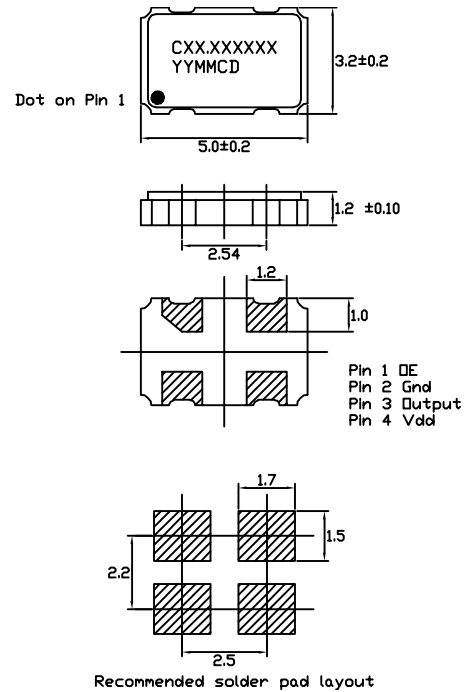
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Note: *Bypass Vdd to GND with a 0.01 μ F capacitor*

Style 8B Plastic SMD



Style 5 3.2x5 Ceramic SMD

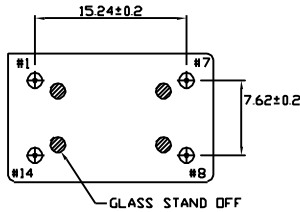
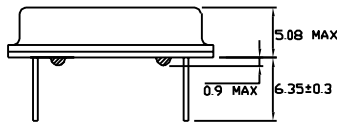
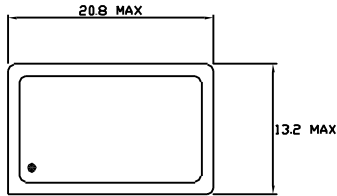


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Note: *Bypass Vdd to GND with a 0.01 μ F capacitor*

Style 1 Full Size 14 Pin Dip

STYLE 1 FULL SIZE 14 PIN DIP



PIN FUNCTION
1 CONTROL
7 GND
8 OUTPUT
14 Vdd

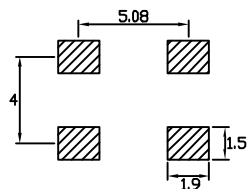
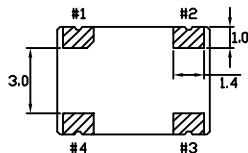
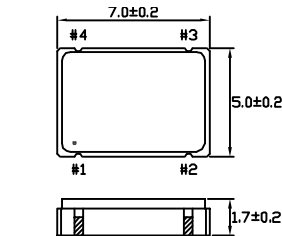
Style 4 Half Size 8 Pin Dip

STYLE 4 HALFSIZE 8 PIN DIP



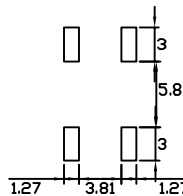
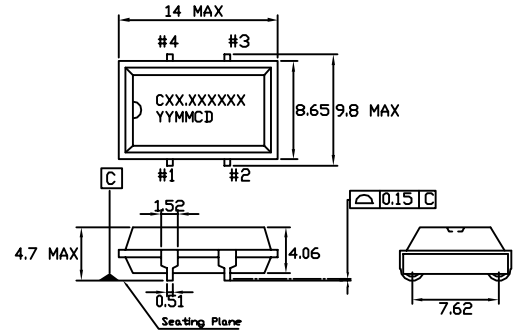
PIN FUNCTION
1 CONTROL
4 GND
5 OUTPUT
8 Vdd

Style 7 5x7 Ceramic SMD



PIN FUNCTION
1 CONTROL
2 GND
3 OUTPUT
4 Vdd

Style 8 Plastic SMD



PIN FUNCTION
1 CONTROL
2 GND
3 OUTPUT
4 Vdd

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Output Clock Switching Characteristics

Description	TEST CONDITIONS	Min	Typ	Max	Unit
Duty Cycle: TTL @ 1.4 V 4.5-5.5 Vdd	≤ 50 MHz, C _L = 50 pF	45		55	%
	50-66 MHz, C _L = 15 pF	45		55	%
	66-125 MHz, C _L = 25 pF	40		60	%
	125-133 MHz, C _L = 15 pF	40		60	%
Duty Cycle: CMOS @ Vdd/2 4.5-5.5 Vdd 3.0-3.6 Vdd	≤ 66 MHz, C _L ≤ 25 pF	45		55	%
	66-125 MHz, C _L ≤ 25 pF	40		60	%
	125-133 MHz, C _L ≤ 15 pF	40		60	%
	≤ 40 MHz, C _L ≤ 30 pF	45		55	%
	40-100 MHz, C _L ≤ 15 pF	40		60	%
Output Clock Rise/Fall	0.8V-2.0V, 4.5-5.5 Vdd, C _L = 50			1.8	ns
	0.8V-2.0V, 4.5-5.5 Vdd, C _L = 25			1.2	ns
	0.8V-2.0V, 4.5-5.5 Vdd, C _L = 15			0.9	ns
	0.2-0.8Vdd, 4.5-5.5 Vdd, C _L = 50			3.4	ns
	0.2-0.8Vdd, 3.0-3.6 Vdd, C _L = 30			4.0	ns
	0.2-0.8Vdd, 3.0-3.6 Vdd, C _L = 15			2.4	ns
Start Up Time	From power on			2	ms
Power Down Delay Time Synchronous Asynchronous	PWR_DWN pin LOW to output Hi-Z		T/2	T+10	ns
			10	15	ns
Output Disable Time Synchronous Asynchronous	OE pin LOW to output Hi-Z T = Frequency oscillator period		T/2	T+10	ns
			10	15	ns
Output Enable Time				100	ns
RMS Period Jitter:	≤ 33.000 MHz		40	50	ps
	> 33.000, MHz		30	40	ps
Peak to Peak *	≤ 33.000 MHz		100	250	ps
	> 33.000 MHz		75	175	ps

* Jitter tested at > 1,000,000 samples, exceeding JEDEC std JESD65.



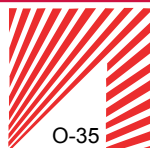
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Electrical Characteristics

Description	TEST CONDITIONS	Min	Typ	Max	Unit
Input Characteristics (Pin 1):					
V _{IL} , Low-Level Input Voltage	4.5–5.5V V _{dd}			0.8	V
TO DISABLE OUTPUT	3.0–3.6V V _{dd}			0.2V _{dd}	V
V _{IH} , High-Level Input Voltage	4.5–5.5V V _{dd}	2.0			V
TO ENABLE OUTPUT OPEN	3.0–3.6V V _{dd}	0.7V _{dd}			
I _{IL} , Input Low Current	V _{IN} = 0V			10	μA
I _{IH} , Input High Current	V _{IN} = V _{dd}			5	μA
Output Characteristics:					
V _{OL} , Low-Level Output Voltage	4.5V–5.5V V _{dd} , 16 mA I _{OL}			0.4	V
	3.0V–3.6V V _{dd} , 8 mA I _{OL}			0.4	V
V _{OHTTL} , High-level Output Voltage TTL	4.5V–5.5V V _{dd} , -16 mA I _{OL}	2.4			V
V _{OHCMOS} , High-level CMOS Voltage	4.5V–5.5V V _{dd} , -16 mA I _{OL}	V _{dd} -0.4			V
	3.0V–3.6V V _{dd} , -8 mA I _{OL}	V _{dd} -0.4			V
Power Supply Current: (unloaded)	4.5–5.5 V _{dd} , OUTPUT FREQ ≤ 133 MHz			45	mA
	3.0–3.6 V _{dd} , OUTPUT FREQ ≤ 100 MHz			25	mA
Standby Current:			10	50	μA
Pull-Up (Pin 1)	4.5–5.5 V _{dd} , V _{IN} = 0V	1.1	3.0	8.0	MΩ
	4.5–5.5 V _{dd} , V _{IN} = 0.7V	50	100	200	KΩ
Tri-State Leakage Current	5.0 V _{dd}		20		μA
Output Enable Mode:	Output is Tri-Stated				
Power Down Mode:	Output is Tri-Stated.				



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