





OeDA 5.0 x 3.2 x 1.85 mm LCC Ceramic Package

Note:

Features

- Pletronics' OeXO[®] Series Ovenized equivalent Temperature Compensated Crystal Oscillator
- Low Power / Fast Warm Up
- CMOS Output
- 3.3V nominal Supply Voltage
- 26.0 MHz nominal frequency

Applications

SONET / SDH / DWDM
Test & Measurement
Telecom Transmission & Switching Equipment
Base Stations / Picocell
Wireless Communication Equipment

Electrical Characteristics									
Parameter	Min	Тур	Max	Unit	Condition				
Frequency Range	-	26	-	MHz					
Frequency Stability vs. Temperature	-	-	±0.28	ppm	Over –40°C to +85°C	at fixed V _{CC} + load (reference to (Fmax+Fmin)/2)			
Frequency Tolerance	-	-	±1.0	ppm	at 25°C				
Operating Temperature Range	-40	-	+85	°C					
Supply Voltage ¹ V _{CC}	3.135	3.3	3.465	Volts					
Supply Current I _{CC}	-	ı	6.0	mA	Load: 15 pF, V _{CC} ± 5%				
Output Waveform		C	MOS						
Duty Cycle	45	50	55	%	Load: 15 pF± 5%				
Output V _{HIGH}	90	-	-	%Vcc	Vth: T_R and T_F 10% and 90% of Vcc Vth: D.C. 50% of Vcc				
Output V _{LOW}	-	-	10	%Vcc					
Output T _{RISE} and T _{FALL}	-	-	6.5	nS					
Start-up Time	-	-	5.0	mS					
Phase Noise 100 Hz 1 kHz 10 kHz	-	-130 -145 -154	-	dBc/Hz	25°C ± 2°C				
Storage Temperature Range	-55	-	+125	°C					

Place a 10nF power supply bypass capacitor next to device for correct operation

² Connect 0.033μF capacitor on pin 7 to ground, required to meet phase noise performance



Device Marking

2600 YMD

P zzz

2600 = 26.0MHz Frequency

YMD = Date Code (year, month, day)

= Internal factory codes = Pletronics

Specifications such as part number, frequency stability, supply voltage and operating temperature range, etc. are not identified from marking.

External packaging labels and packing list will correctly identify the ordered Pletronics part number.

Codes for Date Code YMD (Year Month Day)

Code		2		3		4	ļ	5	5	6	1	Co	de	A	١.	В		С	D)	Е	F		G	Н		J	K		L	M
Year	2	2022	2	202	23	20	24	20	25	20	26	Мо	nth	JΑ	·Ν	FEB	N	1AR	AF	PR	MAY	JU	N .	JUL	AUC	S	EP	OCT	N	OV	DEC
Code	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	Р	R	Т	U	٧	w	X	Υ	Z
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Package Labeling

P/N Label is 1" x 2.6" (25.4mm x 66.7mm) Font is Courier New Bar code is 39-Full ASCII

> Customer P/N: 12345678 D/C 0eX0® MSL: 1

RoHs Label is 1" x 2.6" (25.4mm x 66.7mm) Font is Arial

RoHS Compliant

2nd LvL Interconnect

Category=e4

Max Safe Temp=260C for 10s 2X Max

Pletronics Inc. certifies this device is in accordance with the RoHS and REACH directives.

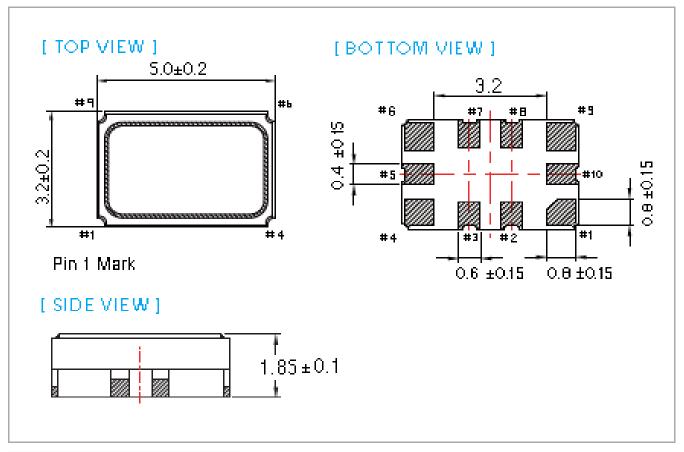
Pletronics Inc. guarantees the device does not contain the following: Cadmium, Hexavalent Chromium, Lead, Mercury, PBB's, PBDE's

Weight of the Device: 0.10 grams Moisture Sensitivity Level: 1 As defined in J-STD-020D

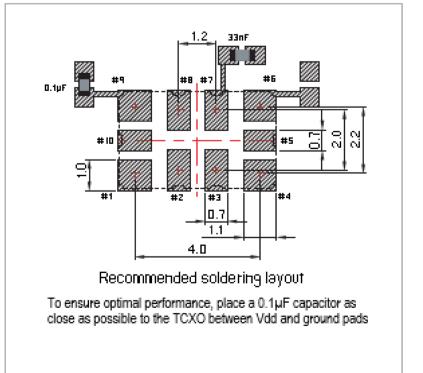
Second Level Interconnect code: e4



Mechanical Dimensions (mm)

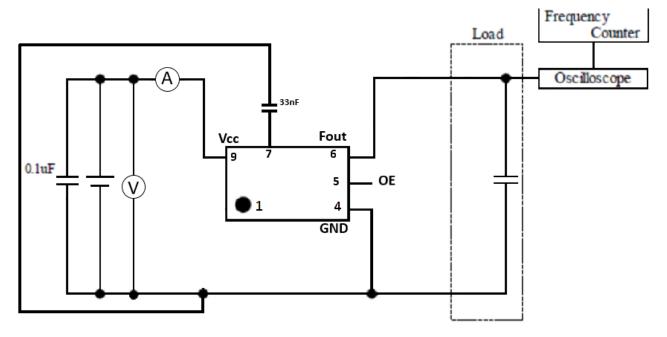


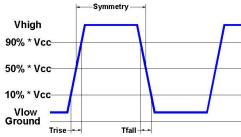
PIN#	FUNCTION
1	`
	NC:TCXO
2	NC
3	NC
4	GND
5	Tri-state
6	Fout
7	VC Filter
8	NC
9	VDD
10	GND





Electrical Test /Load Circuit





Environmental / ESD Ratings

Reliability: Environmental

Parameter	Condition
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A
Solderability	IPC J-STD-002
Thermal Cycle	MIL-STD-883 Method 1010, Condition B

Thermal Characteristics:

The maximum die or junction temperature is 125°C

ESD Rating

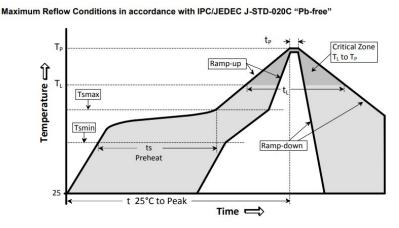
Model	Min. Voltage	Condition			
Human Body Model	2000V	JESD22-A114			
Machine Model	200V	JESD22-A115			

Absolute Maximum Ratings

Parameter	Unit
V _{CC} Supply Voltage	-0.6V to +4.6V
Vi Input Voltage	-0.6V to V _{CC} + 0.6V
Io Output Current	±10mA



Reflow Cycle

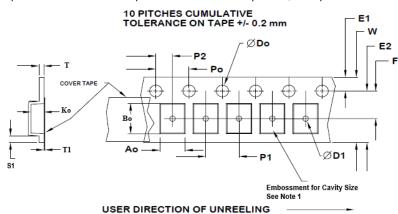


Temperature Profile Symbol Condition Unit Average ramp-up rate Ramp down Rate °C/s 3°C / second max (Ts_{max} to T_P) 6°C / second max T_{cool} 8 minutes max Time 25°C to Peak Temperature min Preheat Temperature min Ts_{min} Temperature max Ts_{max} 200 °C Time Ts_{min} to Ts_{ma} ts 60 - 180sec Soldering above liquidus 217 °C Temperature liquidus T_L Time above liquidus 60 - 150sec Peak temperature Тр °C 260 Peak Temperature Time within 5°C of peak temperature tp 20 - 40sec

The part may be reflowed 2 times without degradation (typical for lead free processing).

Tape and Reel

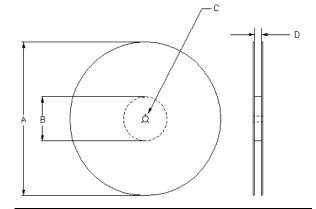
Tape and Reel available for quantities of 250 to 1000 per reel, cut tape for < 250. 12mm tape, 8mm pitch.



		Tape	Variabl	e Dime	Tape Variable Dimensions Table 2											
Tape Size	E2 typ	F	P1	W max	Ao	Во	Ko									
12mm	10.25	5.5 ±0.05	8.0 ±0.1	12.2	3.5±0.1	5.3±0.1	1.9±0.1									

Dimensions in mm Drawing Not to scale Note 1: Embossed cavity to conform to EIA- 481-B

	Tape Constant Dimensions Table 1											
Tape Size	Do	D1 min	E1	Ро	P2	S1 min	T max	T1 max				
12mm	1.5	1.5	1.75	4.0	2.0	0.6	0.3	0.1				
12111111	+0.1 -0.0	1.5	±0.1	±0.1	±0.05	0.0	0.5	0.1				



	Reel Dimensions (may vary) Table 3												
		A	С	D									
Reel Size	Inches	mm	Inches	mm	mm	mm							
_					13.0	Tape size +0.4							
7	7.0	180	2.50	60	+0.5 -0.2	+2.0 -0.0							



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