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CRYSTAL OSCILLATORS

3.3 VOLT INPUT - CMOS OUTPUT, LOW POWER CONSUMPTION, CUSTOM FREQUENCIES FROM 8 TO 50 MHz,
8 PIN DIP PACKAGE. POTENTIAL APPLICATIONS INCLUDE "GREEN" PCS AND MEDICAL INSTRUMENTATION

CXO 23/25 LV SERIES

3.3/5V SWITCHABLE 30.1 TO 50 MHz

SPECIFICATION	UNITS	SYMBOL	FREQUENCY RANGE	TEMP. RANGE	MINIMUM	TYPICAL	MAXIMUM
Operating Voltage	V	V _{cc}	8.0 MHz to 30.0 MHz 30.1 MHz to 50.0 MHz (1)	0 to 70°C	2.7 3.0	3.3 3.3	3.6 3.6
Max. Oper. Voltage	V	V _{cc max.}	8.0 MHz to 50.0 MHz				7
Supply Current (OSC Enabled)	mA	I _{cc}	8.0 MHz to 30.0 MHz 30.1 MHz to 50.0 MHz			10 15	13 20
Supply Current (OSC Disabled)	mA	I _{cc}	8.0 MHz to 30.0 MHz (2) 30.1 MHz to 50.0 MHz			0.5 3.0	1 5
Start-Up Time	mS	T _s	8.0 MHz to 30.0 MHz 30.1 MHz to 50.0 MHz			3 6	5 10
Output Voltage - HI	V	V _{oh}	8.0 MHz to 50.0 MHz		V _{cc} - 4V		
Output Voltage - LO	V	V _{ol}	8.0 MHz to 50.0 MHz				0.4
Duty Cycle (up time)	%	Sym	8.0 MHz to 50.0 MHz		40	50	60
Rise & Fall Time	nS	T _r /T _f	8.0 MHz to 30.0 MHz 30.1 MHz to 50.0 MHz			8 5	12 8
Fanout Output Load	pF	F _o	8.0 MHz to 50.0 MHz				15 pF
Enable Input Load	pF	F _i					15 pF
Enable Voltage - HI	V	V _{ih}	8.0 MHz to 50.0 MHz (2)		.7 V _{cc}		
Enable Voltage - LO	V	V _{il}					.2 V _{cc}

TRISTATE/ENABLE TRUTH TABLE

CONTROL INPUT	OUTPUT
OPEN or HIGH	OSC. OUTPUT
LOW	HIGH Z or LOGIC 1 (2)

TEST CONDITIONS

	CMOS (15 pF)
Symmetry	50% of V _{cc}
Load	15 pF
Rise & Fall Time	20% to 80% of V _{cc}

(1) 3.3/5.0 V Switchable

(2) 8.0-30.0 MHz: Output latched to logic 1 when disabled
30.1-50 MHz: Output is high impedance when disabled

All parameters are met with MAXIMUM FANOUT LOAD unless noted

ORDERING INFORMATION

