



Around The World,
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FREQUENCY CONTROLS KNIGHTS CRYSTALS AND OSCILLATORS

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CRYSTAL OSCILLATORS

ACMOS/TTL COMPATIBLE - DRIVES 50Ω TRANSMISSION LINE, 80 MHz TO 135 MHz, 14 PIN PACKAGE
POTENTIAL APPLICATIONS INCLUDE RISL PROCESSORS AND VIDEO RAMDACs

CXO GTS SERIES

Consult factory for frequencies above 135 MHz

PARAMETER	UNITS	SYMBOL	FREQUENCY RANGE	TEMP. RANGE	MINIMUM	TYPICAL	MAXIMUM	CONDITION
Operating Voltage Max. Oper. Voltage	V	V _{cc} V _{cc} max.	80.0 MHz to 135.0 MHz	0 to 85°C	4.5	5	5.5 7	50 ohm transmission line
Supply Current	mA	I _{cc}	80.0 MHz to 135.0 MHz	0 to 85°C		75	100	50 ohm transmission line
Start-Up Time	mS	T _s	80.0 MHz to 135.0 MHz	0 to 85°C		5	10	50 ohm transmission line
Output Voltage - HI	V	V _{oh}	80.0 MHz to 135.0 MHz	0 to 85°C	4.6 2.4			VDD=5V, I _{oh} =-50μA VDD=5V, I _{oh} =-16mA
Output Voltage - LO	V	V _{ol}	80.0 MHz to 135.0 MHz	0 to 85°C			0.4 0.4	VDD=5V, I _{oh} =-50μA VDD=5V, I _{oh} =-16mA
Rise and Fall Time	nS	T _r & T _f	80.0 MHz to 135.0 MHz	0 to 85°C		.8	1.5	50 ohm transmission line
Duty Cycle (up time)	%	Sym	80.0 MHz to 135.0 MHz	0 to 85°C	40	50	60	50% V _{cc}
			80.0 MHz to 135.0 MHz	0 to 85°C	45	50	55	1.4V
Fanout Output Load		F _o	80.0 MHz to 135.0 MHz	0 to 85°C				50 ohm transmission line
Enable Voltage - HI	V	V _{eh}	80.0 MHz to 135.0 MHz	0 to 85°C		2.0	V _{cc} + .5V	
Enable Voltage - LO	V	V _{el}	80.0 MHz to 135.0 MHz	0 to 85°C			0.8	
High Z Current	mA	I _z	80.0 MHz to 135.0 MHz	0 to 85°C			0.05	TRI-STATED

PIN CONNECTIONS

PINS	Function
14 Pin	
Pin 1	Enable
Pin 7	Case/CKT GND
Pin 8	Output
Pin 14	V _{cc} (+5V)

Enable Truth Table	Osc. Output
Pin 1 Low	High Impedance
Pin 1 High	Functioning
Pin 1 Floating	Functioning

ORDERING INFORMATION

		OUTPUT FREQUENCY			
S = Surface Mount, Figure A (14 Pin Package) Blank = Thru-hole, Figure B (14 Pin Package)		Package Type/Option	Model	Frequency Tol (Note 2)	Code
		14 Pin DIP/STD Output	CXO-65GTS	±.01% (100 ppm)	2
		14 Pin DIP/Tristate Output	CXO-63GTS	±.005% (50 ppm)	3
		Operating Temp. Range	Code		
		0°C to +70°C	C		
		0°C to +85°C	I		

Consult Factory for Availability of 8 PIN Package.