



Around The World,  
Your Single Source For Excellence™

FREQUENCY CONTROLS  
KNIGHTS CRYSTALS AND OSCILLATORS

400 Reimann Ave., Sandwich, IL 60548 815-786-8411 FAX: 815-786-3600

### 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

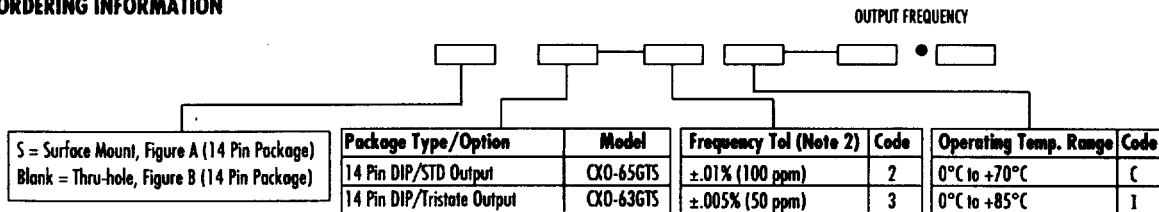
PARAMETER	UNITS	SYMBOL	FREQUENCY RANGE	TEMP. RANGE	MINIMUM	TYPICAL	MAXIMUM	CONDITION
Operating Voltage Max. Oper. Voltage	V	V <sub>cc</sub> V <sub>cc max.</sub>	80.0 MHz to 135.0 MHz	0 to 85°C	4.5	5	5.5 7	50 ohm transmission line
Supply Current	mA	I <sub>cc</sub>	80.0 MHz to 135.0 MHz	0 to 85°C		75	100	50 ohm transmission line
Start-Up Time	mS	T <sub>s</sub>	80.0 MHz to 135.0 MHz	0 to 85°C		5	10	50 ohm transmission line
Output Voltage - HI	V	V <sub>oh</sub>	80.0 MHz to 135.0 MHz	0 to 85°C	4.6 2.4			VDD=5V, I <sub>oh</sub> =-50µA VDD=5V, I <sub>oh</sub> =-16mA
Output Voltage - LO	V	V <sub>ol</sub>	80.0 MHz to 135.0 MHz	0 to 85°C			0.4 0.4	VDD=5V, I <sub>oh</sub> =-50µA VDD=5V, I <sub>oh</sub> =-16mA
Rise and Fall Time	nS	T <sub>r</sub> & T <sub>f</sub>	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 <sub>cc</sub>
			80.0 MHz to 135.0 MHz	0 to 85°C	45	50	55	1.4V
Fanout Output Load		F <sub>o</sub>	80.0 MHz to 135.0 MHz	0 to 85°C				50 ohm transmission line
Enable Voltage - HI	V	V <sub>ih</sub>	80.0 MHz to 135.0 MHz	0 to 85°C		2.0	V <sub>cc</sub> + .5V	
Enable Voltage - LO	V	V <sub>il</sub>	80.0 MHz to 135.0 MHz	0 to 85°C			0.8	
High Z Current	mA	I <sub>z</sub>	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 <sub>cc</sub> (+5V)

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

### ORDERING INFORMATION



Consult Factory for Availability of 8 PIN Package.