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FREQUENCY CONTROLS
KNIGHTS CRYSTALS AND OSCILLATORS

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

CRYSTAL OSCILLATORS STRATUM IV - TELECOMMUNICATIONS FREQUENCIES 16.384 MHZ, 44.736 MHZ, 49.152, 49.408 MHZ, 51.84 MHZ, 65.536, 89.472 MHZ, 14 PIN DIP PACKAGE SEE FIGURE B POTENTIAL APPLICATIONS INCLUDE WIRELESS SYSTEMS

CXO63HT SERIES

Consult factory for custom frequencies. HCMOS/TTL compatible, stability = +/- 32ppm for 20 years. Temperature range; -40° to 85°C.

CXO HT-SERIES SPECIFICATION SUMMARY

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNITS
Supply Voltage	Vcc	Operating Absolute Maximum	4.5	5.0	5.5 7.0	V
Supply Current	Icc	16.0 -> 25 MHz > 25 -> 50 MHz >50 -> 70 MHz >70 -> 89.472		15 30 40 45	25 40 60 85	mA
Output Load		16.0 -> 50 MHz > 50 -> 70 MHz > 70 -> 89.472			50 30 15	pF
		16.0 -> 89.472 MHz**			10	TTL
Output Voltage	Voh	CMOS Load TTL Load **	Vcc -.4 Vcc -.6			V
	Vol				0.4	
Output Current	Ioh Iol	Voh = 3.9V Vol = 0.4V			-16 16	mA
Symmetry		16.0 - 89.472 MHz	40		60	%
Rise & Fall Time	Tr/Tf	16.0 -> 25 MHz > 25 - 70 MHz > 70 -> 89.472 MHz		5 3 2	8 5 3	nS
Output Short-Circuit Current	Ios	1 min maximum duration			50	mA
Enable Input V	Vih Vil		2.0		 0.8	V
Enable Input Load	Cin				10	pF
Tristate Leakage	Iz	Vil = 0.8V			0.05	mA

Unless otherwise specified all test conditions are under max rated TTL and/or CMOS load
** For TTL application above 25 MHz add "s" suffix to model designation

TEST CONDITIONS

SEE FANOUT FOR	CMOS	OR	TTL
Symmetry	50% of waveform		1.5V Level
Load	50 pF (unless noted)		10 TTL loads
Rise & Fall Time	10 to 90% of waveform		.5V to 2.4V

All parameters are met with MAXIMUM FANOUT LOAD UNLESS NOTED

ORDERING INFORMATION

CX063HT7I [ ] • [ ]

OUTPUT FREQUENCY

[ ]
S = Surface Mount, Fig. A
Blank = Thru-hole