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**CRYSTAL OSCILLATORS VCXO 14 PIN DIP VCXO - 8 MHZ TO 30 MHZ, 32.768, 49.408, 49.15L, 51.840, 65.536. CONTACT FACTORY FOR OTHER CUSTOM FREQUENCIES**

### VCXO-65 HG

#### ELECTRICAL SPECIFICATIONS

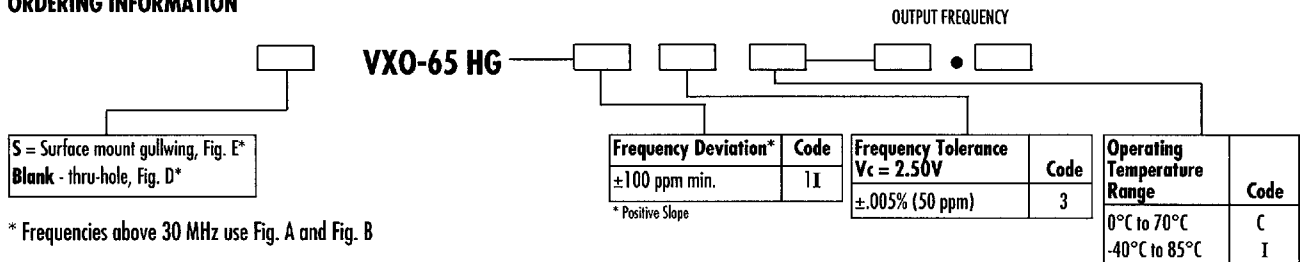
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNITS
Supply Voltage	Vcc	Operating Absolute Maximum	45	50	5.5 7.0	V
Supply Current	Icc	>16.0 -> 30.0 MHZ >8.0 -> 16.0 MHZ		25 15	35 25	nA
Output Load		8.0 -> 30.0 MHZ			50	pF
		8.0 -> 30.0 MHZ			10	TTL
Output Voltage	Voh Vol	CMOS LOAD TTL LOAD**	Voc -.4 Vcc -.6			V
					0.4	
Output Current	Ioh Ioh	Voh = 33.9V Vol = 0.4V			-16 16	nA
Symmetry		>16.0 -> 30.0 MHZ >8.0 -> 16.0 MHZ	40 45		60 55	Z
Rise & Fall Time	Tr/Tf	8.0 -> 30.0 MHZ		5	8	nS
Output Short-Circuit Current	Ios	L min. maximum duration			50	nA
Freq Deviation From Nominal		0.5V -> 4.5V	50ppm/V			PPM
Linearity		0.5V -> 4.5V	-20		+20	Z

#### PIN CONNECTIONS

Pin 1: Frequency control voltage  
Pin 7: Ground/case  
Pin 8: Output  
Pin 14: +5 VDC

\* Consult Factory for 45/55 Duty Cycle

#### ORDERING INFORMATION



\* Frequencies above 30 MHz use Fig. A and Fig. B

### CRYSTAL OSCILLATORS

**ECL ECLIPS/100E - CUSTOM FREQUENCIES FROM 250.1 TO 750 MHZ, 14 PIN PACKAGE SEE FIGURE C**

#### EXO 75 SERIES

Complimentary output standard  
Temperature stability: +/-200 ppm  
Operating temperature: 0 to 70°C

PARAMETER	UNITS	SYMBOL	MINIMUM	TYP	MAXIMUM	CONDITION #
Operating Voltage	V	Vcc				
Max. Oper. Voltage	V	Vcc max.	4.75	5.0	5.25	
Supply Current	nA	Icc		90	130	Full Load
Start-Up Time	nSec	Ts		4	10	Full Load
Output Voltage, HI	V	Voh	3.98		4.26	Full Load
Output Voltage, LO	V	Vol	3.05		3.40	Full Load
Rise and Fall Time	nS	Tr & Tf		0.5	1.0	20-80%
Symmetry	%	Sys	40	50	60	@ 50% level
Load	Ohms	Ω			50	TO Vcc-2V

Note: Stability includes 25°C accuracy, temperature stability, frequency vs. supply voltage, load and environmental changes and 1st year aging.

#### PIN CONNECTIONS

Pins	Function
Pin 1	Vcc (+5V)
Pin 2, 6, 9, 13	Case/Ckt Gnd
Pin 7, 8	Output
Pin 14	N/C (*)

No External Connection Allowed.