



OCXO SERIES 2000

**FEATURES**

Miniature OCXO in standard 14-pin DIP package  
Fast warm up  
Frequencies up to 65 MHz

■ ELECTRICAL PERFORMANCE

PARAMETER	OCXO SERIES 2000
Supply voltage, nom.	5V $\pm$ 5% (3.3V Optional)
Power dissipation steady state	1.5 Watt Max.
Heat up power	3 Watt Max
Heat up time.	3 min Max
Frequency range	1 To 65.536 MHz Standard
Frequency Adjustment	$\pm$ 5PPM Min (0 to 5V)
Freq. stability vs. temperature	LX: 0°C to 60°C $\pm$ 0.10 PPM FZ: -30°C to 70°C $\pm$ 0.25 PPM D3: -40°C to 85°C $\pm$ 0.30 PPM (Standard, contact factory for different temp ranges and stabilities)
Freq. stability vs. supply changes	$\pm$ 0.015 PPM Max for $\pm$ 5% Change
Freq. stability vs. load changes	$\pm$ 0.01 PPM Max for $\pm$ 5% Change
Long term stability (Aging)	$\pm$ 4 PPM Max for 10 Years $\pm$ 0.005 PPM/Day Max.
Output	HCMOS/TTL Standard (Low voltage CMOS Available)
Duty cycle	40/60% to 60/40%
Rise- / fall time	10nS Max. (10%~90%Vout, 90%~10%Vout)
Short term Stability (10MHz)	5 E-10 /1Sec
Phase Noise (Typical at 10MHz under static Conditions)	Offset      Phase Noise 10Hz      -90 dBc/Hz 100Hz     -125 dBc/Hz 1000Hz    -135 dBc/Hz 10000Hz   -140 dBc/Hz

Note: All Typical parameters for a 10MHz output and 5V Supply, for different frequencies consult factory

■ HOW TO ORDER (PART NUMBER)

Prefix	Output Type	Cut Type	Series	Revision	Temperature Range	Stability	Frequency
OX	2:HCMOS 4:LVC MOS	0:AT (No Vcontrol) 4: AT (Elect Vcontrol)	20:2000	A	First letter Lowest Temperature, Second letter Highest Temperature: From A=-55°C to Z=+70°C, Then: 1=+75°C, 2=+80°C, 3=+85°C... in 5°C steps Example: LZ: +0°C to +70°C LX: +0°C to +60°C FZ: -30°C to +70°C D3: -40°C to +85°C	Value x 10E-2 in PPM  Example 0.28PPM M 10= 0.1PPM	In MHZ

中國 ● 香港 ● 九龍官塘開源道 55 號 開聯工業中心 7 字樓 A 座 1-2 號  
Block A, Flat 1-2, 7/F, Hoi Yuen Road, Kwun Tong, Kln, Hong Kong, China

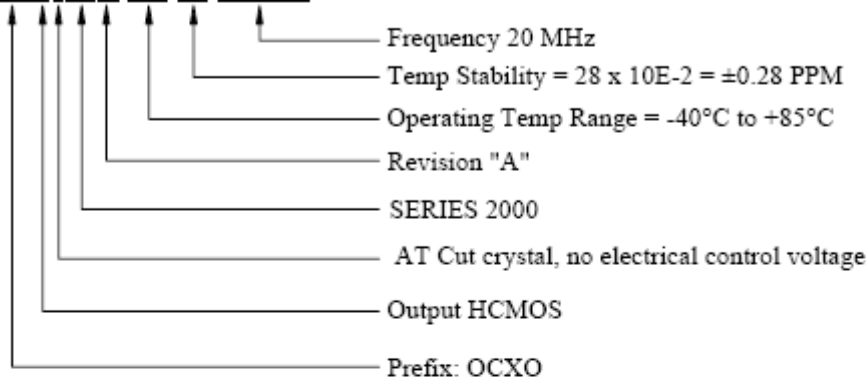
Tel: 852-23899201      Fax: 852-23410001      E-mail: info@nkg.com.hk



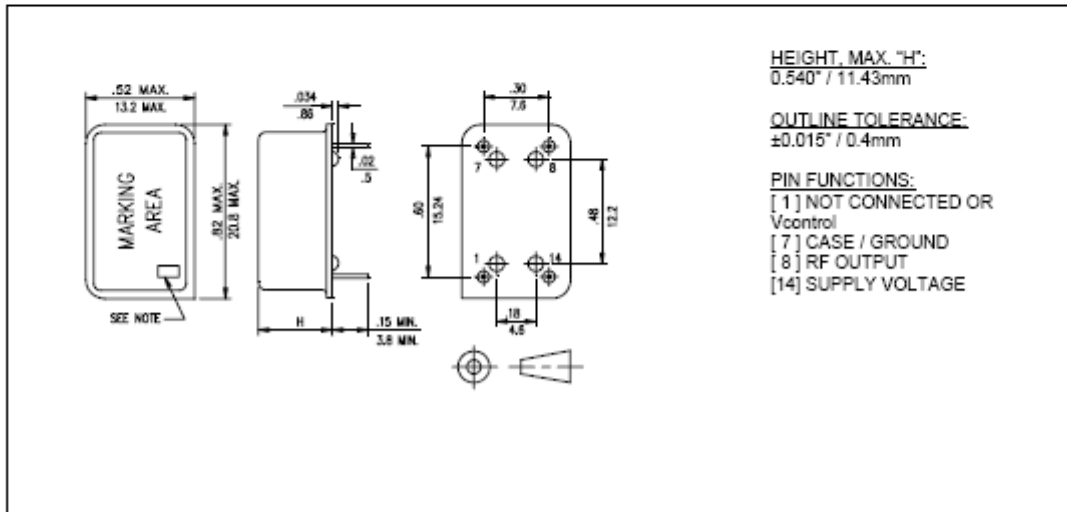
中川電子有限公司  
*Nakagawa Electronics Limited*

Example:

**OX2020A-D3-28-20.000**



■ MECHANICAL SPECIFICATION



中國 • 香港 • 九龍官塘開源道 55 號 開聯工業中心 7 字樓 A 座 1-2 號  
Block A, Flat 1-2, 7/F, Hoi Yuen Road, Kwun Tong, Kln, Hong Kong, China

Tel: 852-23899201 Fax: 852-23410001 E-mail: info@nkg.com.hk