

**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	$\pm 5$ PPM 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)	<table> <tr> <th>Offset</th><th>Phase Noise</th></tr> <tr> <td>10Hz</td><td>-90 dBc/Hz</td></tr> <tr> <td>100Hz</td><td>-125 dBc/Hz</td></tr> <tr> <td>1000Hz</td><td>-135 dBc/Hz</td></tr> <tr> <td>10000Hz</td><td>-140 dBc/Hz</td></tr> </table>	Offset	Phase Noise	10Hz	-90 dBc/Hz	100Hz	-125 dBc/Hz	1000Hz	-135 dBc/Hz	10000Hz	-140 dBc/Hz
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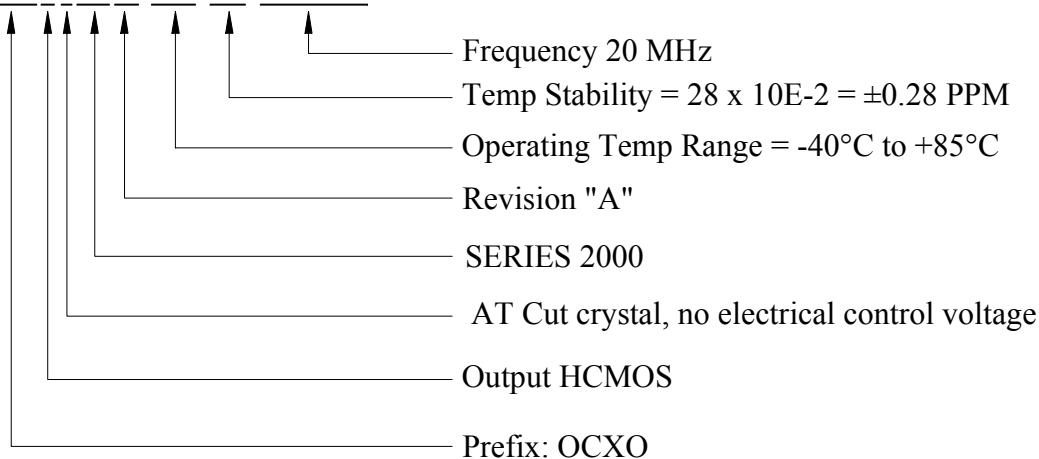
Note: All Typical parameters for a 10MHz output and 5V Supply, for different frequencies consult factory

■ **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  28= 0.28PPM M  10= 0.1PPM	In MHZ

Example:

## **OX2020A-D3-28-20.000**



## ■ MECHANICAL SPECIFICATION

