

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 |

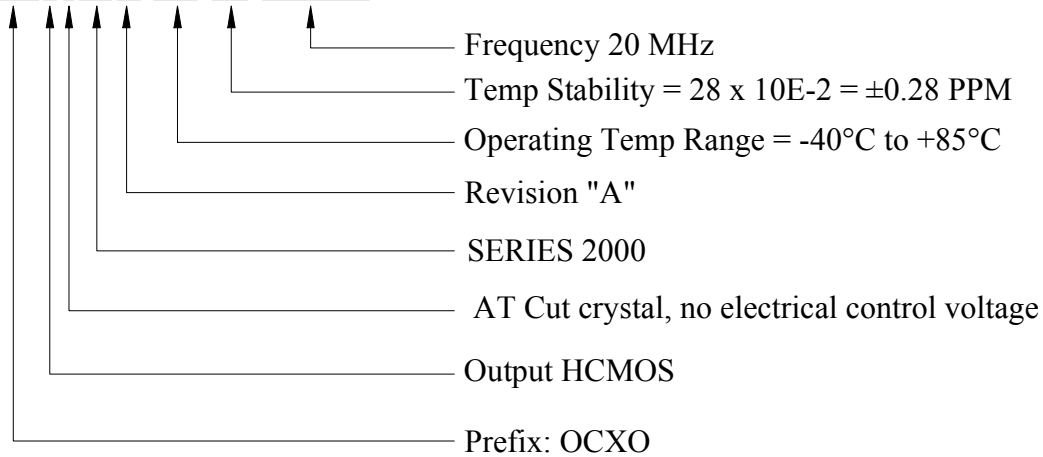
Note: All Typical parameters for a 10MHz output and 5V Supply, for different frequencies consult factory

■ 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 28= 0.28PP M 10= 0.1PPM | In MHZ |

Example:

OX2020A-D3-28-20.000



■ MECHANICAL SPECIFICATION

