





Oven Controlled Crystal Oscillators

RoHS Compliant

Series	Features	Stability	Package Size
 OHM4	10 MHz–120 MHz <ul style="list-style-type: none"> ◆ CMOS ◆ 3.3 V or 5.0 V ◆ High Accuracy ◆ EFC ±15.0 ppm min available. 	± 25ppb over 0° to +60°C ± 250ppb over -40° to +85°C	Through Hole DIP/DIL
 OHM4 STRATUM 3	10 MHz–40 MHz <ul style="list-style-type: none"> ◆ CMOS ◆ 3.3 V or 5.0 V ◆ High Accuracy ◆ EFC ±15.0 ppm min available 	± 4.6 ppm over all conditions for 15 years	Through Hole DIP/DIL
 OSM4	10 MHz–120 MHz <ul style="list-style-type: none"> ◆ Sine Wave ◆ 3.3 V or 5.0 V ◆ High Accuracy ◆ EFC ±15.0 ppm min available. 	± 0.5 ppm over -30° to +85°C	Through Hole DIP/DIL
Specialized OCXO's 	10 MHz–150 MHz <ul style="list-style-type: none"> ◆ Engineered to customer specifications ◆ Double Ovens ◆ MIL and IEC standards ◆ Stratum III and IIIe ◆ Ultra low phase noise ◆ Sine Wave, CMOS, PECL, and LVDS outputs ◆ Oven Alarms See Specialized OCXO guide	Stabilities available to ± 5.0 ppb over -40° to +85°C	Industry standard and custom Packages Vibration isolated packages




APPLICATIONS

COMMON FREQUENCIES (MHz)

◆ Wireless Communication	10.0	20
◆ Base stations	12.8	20.48
◆ Handsets	13	25
◆ Point to point radios	16	26
◆ Broadband access	16.8	27
◆ GPS	19.2	38.4
◆ Test equipment	19.44	40

OCXO equivalent Crystal Oscillators

RoHS Compliant

Series	Features	Stability	Package Size
 <p>OeD4</p>	10 MHz–40 MHz ♦ <u>CMOS</u> ♦ 2.5 V or 3.3 V ♦ EFC of ±5.0 ppm min available	± 50ppb over 0° to +70°C ± 100ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	3.2 x 5.0 mm Ceramic LCC
 <p>OeA4</p>	10 MHz–40 MHz ♦ <u>CMOS</u> ♦ 2.5 V or 3.3 V ♦ EFC of ±5.0 ppm min available	± 50ppb over 0° to +70°C ± 100ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	5.0 x 7.0 mm Ceramic LCC
 <p>OeM4</p>	10 MHz–40 MHz ♦ <u>CMOS</u> ♦ 2.5 V, 3.3 V, 5.0 V or 12 V ♦ EFC of ±5.0 ppm min available.	± 50ppb over 0° to +70°C ± 100ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	Through Hole DIP/DIL Equivalent to OHM4

Comparison of the Pletronics OCXO and OeXO Performance

Specification	OHM4 DIP/DIL OCXO	OeA4, OeD4, OeM4	Remark
Stability 0°C to 70°C	± 0.05	± 0.05	
Stability –40°C to 85°C	± 0.10	± 0.10	
Aging 1 st year 10 years	± 0.3 ± 2.5	± 0.3 ± 2.5	
Phase Noise 10Hz 100Hz 1KHz 10KHz	-100 -130 -140 -145	-100 -120 -144 -151	dBc/Hz
Warm up time to reach the specified frequency	120 seconds at 25°C	<1 second at any temperature	
Power Supply Current	170 mA	5 mA	at –20°C
	110 mA	5 mA	at 30°C
	250 mA	5 mA	at turn on and up to 30 seconds

APPLICATIONS

COMMON FREQUENCIES (MHz)

Excellent solution for battery powered devices	10.0	20
	13.0	26
	19.2	