PLETRONICS OeXO's®

RoHS 6/6 Compliant

OCXO equivalent Crystal Oscillators — RoHS Compliant

Series	Features	Stability	Package Size
 OeD4	10 MHz—40 MHz ♦ CMOS ♦ 2.8 V to 3.3 V ♦ EFC of ±5.0 ppm min available	± 50ppb over 0° to +70°C ± 200ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	3.2 x 5.0 mm Ceramic LCC
 OeA4	10 MHz—40 MHz ♦ CMOS ♦ 2.8 V to 3.3 V ♦ EFC of ±5.0 ppm min available	± 50ppb over 0° to +70°C ± 200ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	5.0 x 7.0 mm Ceramic LCC
 OeM4	10 MHz—40 MHz ♦ CMOS ♦ 2.8 V to 3.3 V ♦ EFC of ±5.0 ppm min available ♦ Used on GPS Product lines	± 50ppb over 0° to +70°C ± 200ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	Through Hole DIP/DIL Equivalent to OHM4
 OeM8	9.6 MHz—26 MHz ♦ CMOS ♦ 3.3 V only ♦ EFC of ±5.0 ppm min available	± 50ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	Through Hole DIP/DIL
 OeS8	9.6 MHz—26 MHz ♦ CMOS ♦ 3.3 V only ♦ EFC of ±5.0 ppm min available	± 50ppb over –40° to +85°C ± 4.6 ppm over all conditions for 15 years	Surface Mount Equivalent to OeM8

Comparison of the Pletronics OCXO and OeXO® Performance

Specification	OHM4 DIP/DIL OCXO	OeA4, OeD4, OeM4, OeM8	Remark
Stability 0°C to 70°C	± 0.05	± 0.05	ppm
Stability –40°C to 85°C	± 0.20	± 0.20	OeM8 +/-0.05ppm
Aging 1st 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

PLETRONICS Innovations in Frequency Control

PLETRONICS

OCXO'S

Oven Controlled Crystal Oscillators

RoHS Compliant

Series	Features	Stability	Package Size
 OHM4	10 MHz—120 MHz ♦ 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 ♦ 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 ♦ 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

APPLICATIONS	COMMON FREQUENCIES (MHz)	
♦ Wireless Communication	10	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

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