

OCXO OS3E400 - 10

- Stratum 3E compliant; long term and 24 hour holdover to Stratum 3E levels specified in GR-1244-CORE issue 2 and GR-63-CORE issue 1
- High quality, excellent phase noise, extremely low ageing from a precision SC cut resonator
- Hermetic seal
- Manufactured to standard and custom frequencies (5.0 ~ 50)MHz



Standard options:

frequency range:	(5.0 ~ 50.0)MHz			
supply voltage codes:	(V1)*	(V2)*	(V3)*	
supply voltage	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.	
trim reference option*	+3.0Vd.c.	+4.5Vd.c.	+4.5Vd.c.	
	* add suffix (R) for V .output on pin #5			

Generic specification:

output:

CMOS 15pF, 45% ~ 55% rise and fall time 2ns max.

stability:

against temperature change stratum 3E compliant

against supply voltage change against load change ageing short term

ageing long term voltage trim V_t trim input impedance ±0.0085ppm(0 +70)°C

long term and 24 hour holdover requirements of Stratum 3E levels specified in GR-1244-CORE issue 2 and GR-63-CORE issue 1

 ± 0.002 ppm max. for $V_{\infty} \pm 5\%$ ± 0.002 ppm max. for load $\pm 10\%$ ± 0.0005 ppm max. per day after 30 days continuous operation ± 0.05 ppm max. first year ± 0.5 ppm min. typical, linearity $\pm 5\%$ 100K Ω min.

+5.0Vd.c.

600mA max.

220mA max.

500Meg Ω min., 100Vd.c.

5 minutes max. to within 0.1ppm of nominal

power supplies:

supply voltage V_{cc} start up current at min. temp. range quiescent current at max. temp. range warm up time insulation resistance

phase noise:

single sideband, 1Hz bandwidth

-130dBc/Hz, f_o+10Hz -155dBc/Hz, f_o+100Hz -160dBc/Hz, f_o+1kHz

+3.3Vd.c.

900mA max.

320mA max.

temperature:

operating range storage range

(0 +70)°C (-40 +125)°C +12.0Vd.c.

300mA max.

120mA max.



Environmental conditions:

mechanical shock: MIL standard 202F, method 213, condition J thermal shock: MIL standard 202F, method 107, condition A vibration: MIL standard 202F, method 204, condition B

solderability: 5 seconds max. at +230°C, 3 seconds max. at +350°C

Marking: part number, frequency and serial number on high temperature

metalised polyester label

Custom specification: part number issued with custom specification and drawing

Ordering code:

standard option: OS3E400-10-V2* - 10.00M OS3E400-10 = series generic code

V2* supply voltage code: V2 = +5Vd.c. supply

*Add suffix (R) for V_{ref} output on pin #5

10.00M output frequency: **10.00M** = **10.000MHz**

custom specification: part number issued with custom specification and drawing



