

OCXO OS3E936 - 10

- Stratum 3E compliant; long term and 24 hour holdover to Stratum 3E levels specificed in GR-1244-CORE issue 2 and GR-63-CORE issue 1
- Hermetic seal
- High quality, excellent phase noise, extremely low ageing from a precision SC cut resonator
- Manufactured to standard and custom frequencies (1.0 ~ 125)MHz



Standard options:

frequency range:	(1.0 ~ 125.0)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:

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

±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 ± 0.1 ppm max. first year ± 0.5 ppm min. typical, linearity $\pm 5\%$ 100K Ω min.

-155dBc/Hz, f_+1kHz

power supplies:

supply voltage V_{cc} +12.0Vd.c. +3.3Vd.c. +5.0Vd.c. start up current at min. temp. range 900mA max. 600mA max. 300mA max. quiescent current at max. temp. range 320mA max. 220mA max. 120mA max. warm up time 5 minutes max. to within 0.1ppm of nominal insulation resistance 500MegΩ min., 100Vd.c.

phase noise:

single sideband, 1Hz bandwidth -110dBc/Hz, f_o+10Hz -135dBc/Hz, f_o+100Hz

temperature:
operating range $(0 + 70)^{\circ}C$ storage range $(-40 + 125)^{\circ}C$



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 and frequency on high temperature

metalised polyester label

Ordering code: standard specification: OS3E936-10-V2* - 10.00M

OS3E936-10 = 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



