

OCXO OS400 - 10

- ±0.005ppm stability, excellent phase noise.
- A small high quality hermetically sealed OCXO combining minimum volume with an excellent specification from a precision SC cut resonator.
- Manufactured to standard and custom frequencies 5.0Mz to 50MHz.
- Ageing from ±0.05ppm first year.



Standard options:

	(5 ~ 50)MHz		
(A)	(B)	(C)	
±0.005ppm	±0.01ppm	±0.02ppm	
(0 +50)°C	(-10 +60)°C	(-20 +70)°C	
(S)		(L)	
sine wave, 0dBm into 50	Ω CN	1OS 15pF, 45% ~ 55%	
<2ns max. rise and fall			
(V1)*	(V2)*	(V3)*	
+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.	
+3.0Vd.c.	+4.5Vd.c.	+4.5Vd.c.	
* add suffix (R) for V _{ref} output on pin #5			
	±0.005ppm (0 +50)°C — (S) sine wave, 0dBm into 50 <2r (V1)* +3.3Vd.c. +3.0Vd.c.	(A) (B)	(A) (B) (C)

Generic specification:

stability:

against supply voltage change against load change ageing short term

ageing long term voltage trim V_t trim input impedance

 ± 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.

power supplies:

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

+3.3Vd.c. +5.0Vd.c. +12.0Vd.c. 900mA max. 600mA max. 300mA max. 320mA max. 220mA max. 120mA max. 5 minutes max. to within 0.1ppm of nominal 500MegΩ min., 100Vd.c.

phase noise:

single sideband, 1Hz bandwidth

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

temperature:

operating range storage range

(0 +50)°C (-40 +125)°C (-10 +60)°C (-40 +125)°C (-20 +70)°C (-40 +125)°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

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

part number and frequency on high temperature Marking:

metalised polyester label

OS400-10 A S V2* - 10.00M standard specification:

> OS400-10 = series generic code

> > temp. tol. and temp. range code: $A = \pm 0.005ppm(0 + 50)$ °C

output code: $S = sine wave output, 0dBm into 50\Omega$ S

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

*add suffix (R) for V_{ref} output on pin #5 output frequency: **10.00M = 10.000MHz** 10.00M

Custom specification: part number issued with custom specification and drawing



