



OCXO OS365 - 9 smd

- μ C programmable trim, ± 0.02 ppm stability, excellent phase noise, low ageing, fast warm up.
- A miniature high quality smd OCXO combining minimum volume with exceptional performance from a precision SC cut resonator.
- Manufactured to standard and custom frequencies 10MHz to 120MHz.



Standard options:

frequency range:	_____ (10 ~ 120)MHz _____		
accuracy codes:	_____ (A) _____ (B) _____		
temperature tolerance	± 0.02 ppm	± 0.05 ppm	
temperature range	(-20 +60) $^{\circ}$ C	(-40 +70) $^{\circ}$ C	
output codes:	_____ (L) _____		
output	CMOS 15pF, 45% ~ 55% <2ns max. rise and fall		
supply voltage codes:	_____ (V1) _____ (V2) _____ (V3) _____		
supply voltage	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.

Generic specification:

stability:			
against supply voltage change	± 0.002 ppm max. for $V_{cc} \pm 5\%$		
against load change	± 0.002 ppm max. for load $\pm 10\%$		
ageing short term	± 0.0002 ppm max. per day after 30 days continuous operation		
ageing long term	± 0.05 ppm max. first year after 30 days continuous operation		
μ C programmable trim	± 1 ppm typical		
power supplies:			
supply voltage V_{cc}	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.
start up current at min. temp. range	850mA	550mA max.	270mA
quiescent current at max. temp. range	350mA	220mA max.	110mA
warm up time	2 minutes max. to within 0.1ppm of nominal		
insulation resistance	500Meg Ω min., 100Vd.c.		
phase noise:			
single sideband, 1Hz bandwidth	-110dBc/Hz, $f_o + 10$ Hz -140dBc/Hz, $f_o + 100$ Hz -160dBc/Hz, $f_o + 1$ kHz		
temperature:			
operating range	(-20 +60) $^{\circ}$ C		(-40 +70) $^{\circ}$ C
storage range	(-40 +125) $^{\circ}$ C		(-40 +125) $^{\circ}$ C

Updated April 19th 2011

Environmental conditions:

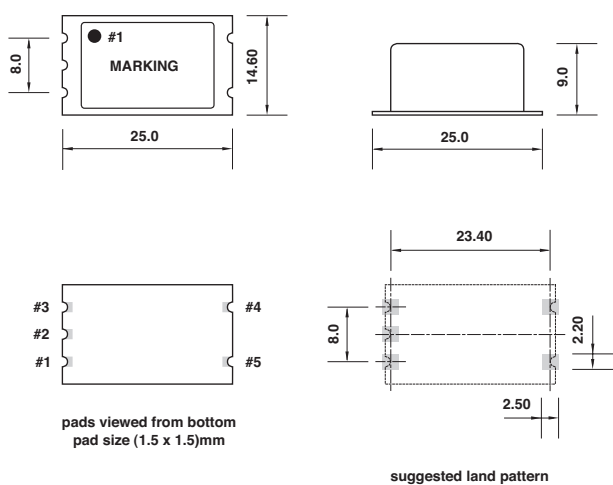
- mechanical shock:** MIL standard 202F, method 213, condition J
- thermal shock:** MIL standard 202F, method 107, condition A
- vibration:** MIL standard 202F, method 204, condition B
- solderability:** 5 seconds max. at +230°C, 3 seconds max. at +350°C

Marking: part number and frequency on high temperature metalised polyester label

- standard specification:** OS365-9-smd A L V1 - 10.00M
 OS365-9-smd = series generic code
A temp. tol. and temp. range code: A = $\pm 0.02\text{ppm}(-20 +60)^\circ\text{C}$
L output code: L = CMOS output, 15pF, 45% ~ 55%
V1 supply voltage code: V1 = +3.3Vd.c. supply
10.00M output frequency: 10.00M = 10.000MHz

Custom specification: part number issued with custom specification and drawing

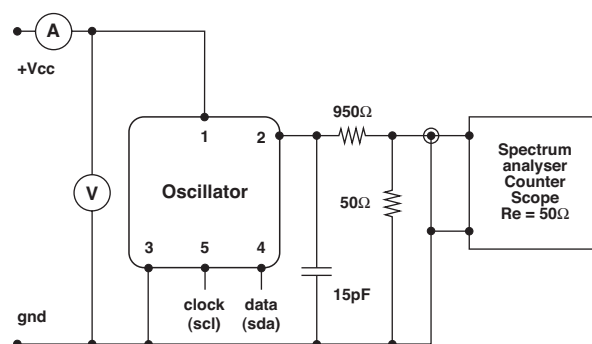
Dimensions(mm):



Pin connections:

- # 1 +V_{cc}
- # 2 output
- # 3 ground/case
- # 4 data(sda)
- # 5 clock(scl)

Test circuit, CMOS load:



test circuit includes a 20:1 step down into a matched 50Ω load