

Optimised performance 10.00MHz smd DIL OCXO

Temperature tolerance: ±0.02ppm(-20 +70)°C

Phase noise: -160dBc/Hz, f₀ +1KHz

Low profile smd package

SC cut crystal Supply +12Vd.c.

Quiescent current: 140mA max. at +25 °C

RoHS compliant

Generic specification:

10.000MHz frequency:

CMOS 15pF, 45% ~ 55% output:

<5ns max. rise and fall

stability:

against temperature ±0.02ppm(-20 +70)°C

against supply voltage change ± 0.002 ppm max., $V_{cc} \pm 5\%$

against load change

±0.002ppm max., load ±10%

ageing short term

±0.0002ppm max. per day

after 30 days continuous

operation

ageing long term

±0.05ppm max. per year

after 30 days continuous

operation

voltage trim V,

±1ppm typical, 1.5Vd.c. ±1.5Vd.c.

linearity ±5%

trim input impedance

100K Ω min.

power supplies:

insulation resistance

+12Vd.c. supply voltage V voltage reference +3Vd.c.

start up current 370mA max. at -20°C quiescent current 140mA max. at +25°C

warm up time 2 minutes max.

to within 0.1ppm of nominal 500MegΩ min., 100Vd.c.

-130dBc/Hz, f₂+10Hz phase noise:

-150dBc/Hz, f +100Hz

-160dBc/Hz, f +1kHz

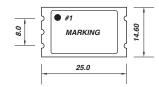
temperature:

(-20 +70)°C operating range storage range (-40 +125)°C

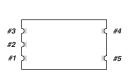
marking: part number, frequency,

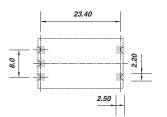
date code, serial number

Dimensions(mm):









suggested land pattern

pads viewed from bottom pad size (1.5 x 1.5)mm

Pin connections:

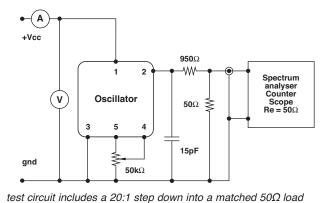
 $+V_{cc}$ # 1 #2

#4 tune

#5 V_{ref}

output #3 ground/case

Test circuit, CMOS load:



Environmental conditions:

MIL standard 202F MIL standard 202F MIL standard 202F

method 213, condition J method 107, condition A method 204, condition B

solderability

5 seconds max. at +230°C

3 seconds max. at +350°C

ISO9001: 2008

A1511CAN

