



10.0000 MHz

Specification:

specification number OA265-1005-001
frequency: 10.0000 MHz
tolerance: ±0.1ppm(-40 +70)°C
output: LVCMOS
 (45~55)%
 Rise/fall time 2 n.s. max
supply voltage: +3.3Vd.c.

Generic specification:

stability:
 against V_{cc} change ±0.002ppm max.,
 $V_{cc} \pm 5\%$
 against load change ±0.002ppm max.,
 load ±10%
 ageing short term ±0.0002ppm max./day
 after 30 days continuous
 operation
 ageing long term ±0.05ppm max./year
 after 30 days continuous
 operation
 Tune range ±10ppm typical
 1.65V ± 1.65V

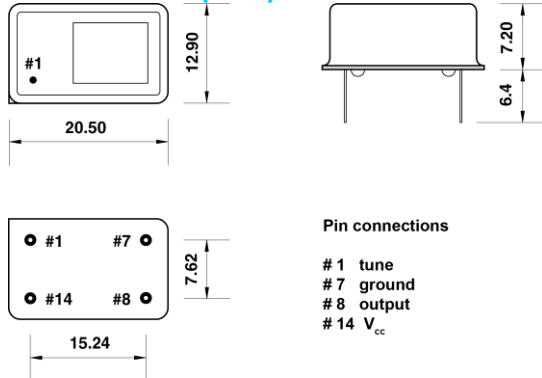
power supplies:
 start up current 450mA max.,
 quiescent current <180mA, +25°C
 warm up time 1 minute max. to within
 ±0.25ppm of nominal
 insulation resistance 500MegΩ min., 100Vd.c.

phase noise (Typical)
 single sideband
 -115dBc/Hz, $f_o+10\text{Hz}$
 -140dBc/Hz, $f_o+100\text{Hz}$
 -152dBc/Hz, $f_o+1\text{KHz}$
 -160dBc/Hz, $f_o+10\text{KHz}$

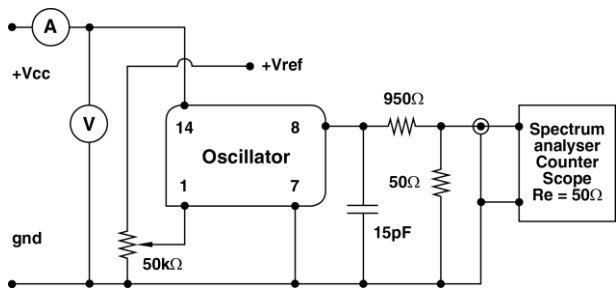
temperature:
 operating range (-40 +70)°C
 storage range (-55 +125)°C

marking: part number, frequency,
 date code.

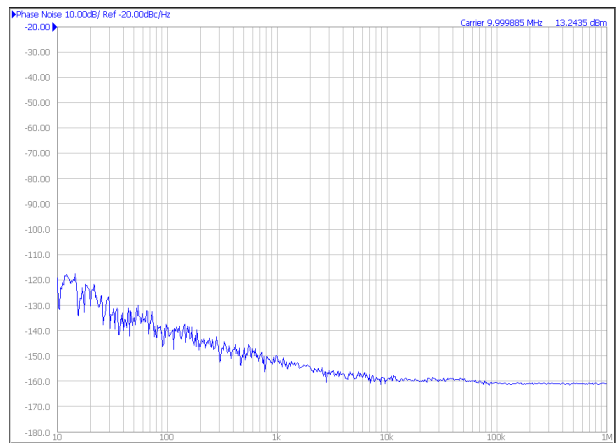
Dimensions (mm):



Test circuit:



test circuit includes a 20:1 step down.



Environmental conditions:

mechanical shock: MIL standard 202F,
 (Factory Conditional) method 213, condition J
thermal shock: MIL standard 202F,
 (Factory Conditional) method 107, condition A
vibration: MIL standard 202F,
 (Factory Conditional) method 204, condition B
solderability: 5 seconds max. +230°C
 3 seconds max. +350°C
RoHS: RoHS Compliant.



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 oscillators

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