

Custom:

20.00000 MHz

**Custom specification:**

custom part number TX9214-2000-001
frequency: 20.0000 MHz
tolerance: $\pm 1.0\text{ppm}(-10 +70)^{\circ}\text{C}$
output: CMOS 15pF
 Duty Cycle 50% +/-5%

supply voltage: +5.0 Vd.c.

Generic specification:

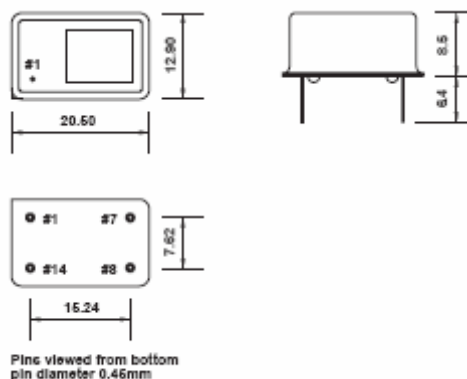
stability:
 against V_{cc} change $\pm 0.02\text{ppm max.}, V_{cc} \pm 5\%$
 against load change $\pm 0.02\text{ppm max.}, \text{load} \pm 10\%$
 ageing short term $\pm 0.005\text{ppm max./day}$ after 30 days continuous operation
 ageing long term $\pm 1.00\text{ppm max./year}$ after 30 days continuous operation
 tune $\pm 10\text{ppm typical}$

power supplies:
 start up current 20mA max.,
 insulation resistance 500Meg Ω min., 100Vd.c.

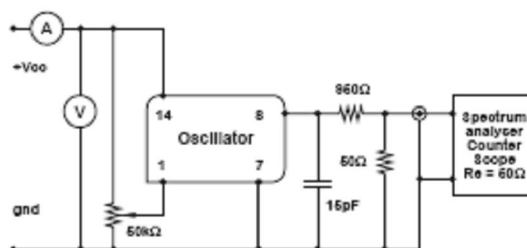
phase noise:
 single sideband
 $-95\text{dBc/Hz}, f_o + 10\text{Hz}$
 $-125\text{dBc/Hz}, f_o + 100\text{Hz}$
 $-155\text{dBc/Hz}, f_o + 1\text{KHz}$

temperature:
 operating range $(-10 +70)^{\circ}\text{C}$
 storage range $(-40 +125)^{\circ}\text{C}$

marking: part number, frequency,
 date code, serial number

Dimensions (mm):**Pin Connections:**

#1 Tune
 #7 ground/case
 #8 output
 #14 +Vcc

Test circuit:

test circuit includes a 20:1 step down.

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. $+230^{\circ}\text{C}$
 3 seconds max. $+350^{\circ}\text{C}$
solderability:
RoHs: RoHS Compliant.



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 oscillators

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