

OCXO OS364 - 13

- low phase noise frequency standard, frequency range 1MHz to 1GHz
- (-40 +85)°C operating temperature
- sine wave output, 0dBm into 50Ω, harmonics -25dBc
- Hermetically sealed case, 13mm height
- h.f. communications equipment, system synchronisation, precision reference



Generic specification:

Stability:

over temperature	from $\pm 0.01\text{ppm}(-40 +85)^\circ\text{C}$, custom specified
against V_{cc} change	$\pm 0.001\text{ppm max.}$, $V_{cc} \pm 5\%$
against load change	$\pm 0.001\text{ppm max.}$, load $\pm 10\%$
ageing short term	$\pm 0.0003\text{ppm max./day}$ after 30 days continuous operation
ageing long term	from $\pm 0.12\text{ppm max./year}$ after 30 days continuous operation
short term stability electronic trim	$\pm 0.0005\text{ppm max. 1 sec}$ $\pm 1.0\text{ppm typical}$ $+2.5\text{Vd.c. } \pm 2.5\text{V, 10\% linearity}$

Output:

sine wave, +0dBm min. into 50Ω, harmonics -25dBc

Power supplies:

supply voltage	+12Vd.c. $\pm 5\%$
start up current	350mA max.
quiescent current	150mA max. at +25°C
warm up time	5 minutes max. to within $\pm 0.1\text{ppm}$ of nominal

Phase noise:

single sideband, 1Hz bandwidth	-115dBc/Hz, $f_o + 10\text{Hz}$
	-142dBc/Hz, $f_o + 100\text{Hz}$
	-155dBc/Hz, $f_o + 1\text{kHz}$
	-160dBc/Hz, $f_o + 10\text{kHz}$

Jitter:

<1ps

Temperature:

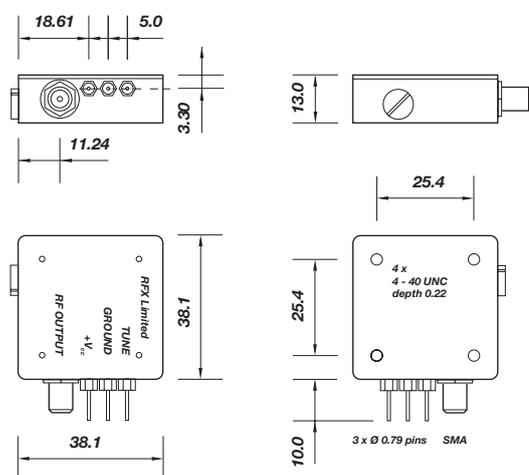
operating range	(-40 +85)°C
storage range	(-55 +125)°C

Insulation resistance: 500MΩ min., 100Vd.c.

Marking:

part number, frequency, date code, serial number

Dimensions(mm):



Test circuit:

