## OCXO: PT626 - 13 - PLL

- ***1MHz to 1GHz PLL hybrid OCXO module phase locked to external 10.00MHz precision reference***
- ***sine wave output, 0dBm into 50Ω***
- ***Hermetically sealed case, 13mm height***
- ***h.f. Communications equipment, system synchronisation, precision reference***


## Generic specification:

***Stability:***

| | |
|---|---|
| *OCXO holdover* | *from ±0.005ppm(0 +50)°C, custom specified* |
| *locked* | *dependent upon input reference accuracy* |
| *input reference* | *10.000MHz, 0dBm, as standard, +2dBm ±6dB* |
| *against $V_{cc}$ change* | *±0.002ppm max., $V_{cc}$ ±5%* |
| *against load change* | *±0.0002ppm max., load ±10%* |
| *ageing short term* | *±0.0003ppm max./day after 30 days continuous operation* |
| *ageing long term* | *from ±0.1ppm max./ year after 30 days continuous operation* |
| *electronic trim* | *±1.0ppm min, no reference* |
| ***Output:*** | *sine wave, +0dBm min. harmonics -25dBc* |

***Power supplies:***

| | |
|---|---|
| *supply voltage* | *+5Vd.c. ±5%* |
| *start up current* | *560mA max.* |
| *quiescent current* | *270mA max. at +25°C* |
| *warm up time* | *4 minutes max. to within ±0.1ppm of nominal* |

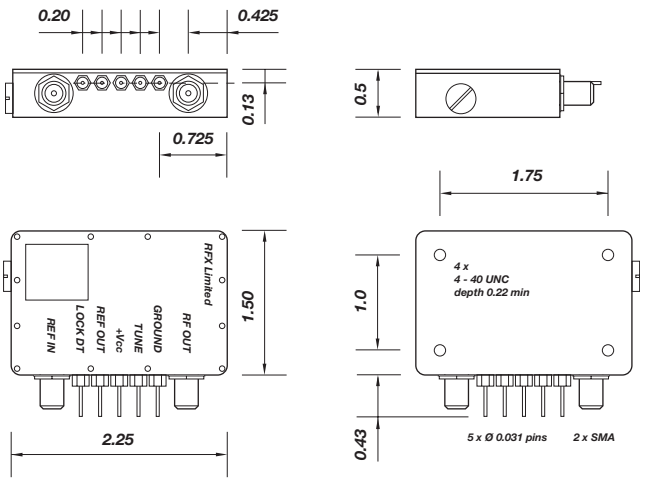
***Typical 10MHz free run phase noise:***

| | |
|---|---|
| *single sideband, 1Hz bandwidth* | *-130dBc/Hz, $f_o$ +10Hz*<br>*-150dBc/Hz, $f_o$ +100Hz*<br>*-160dBc/Hz, $f_o$ +1kHz*<br>*-170dBc/Hz, $f_o$ +10kHz*<br>***phase noise at lock dependent on reference input*** |
| ***Jitter:*** | *<1ps* |

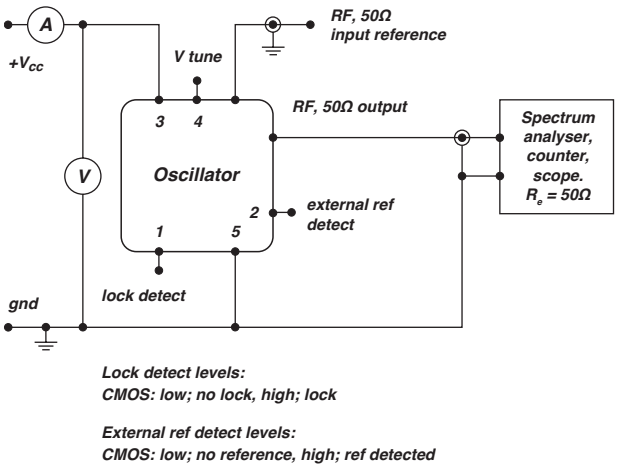
***Temperature:***

| | |
|---|---|
| *operating range* | *(0 +50)°C* |
| *storage range* | *(-40 +125)°C* |
| ***Insulation resistance:*** | *500MΩ min., 100Vd.c.* |
| ***Marking:*** | *part number, frequency, date code, serial number* |

## Dimensions(inches):




## Test circuit:




***Lock detect levels:***
***CMOS: low; no lock, high; lock***

***External ref detect levels:***
***CMOS: low; no reference, high; ref detected***

*Updated July 7th 2014*



*Telephone: +44 (0)1506 439 222, e-mail: sales@rfx.co.uk*