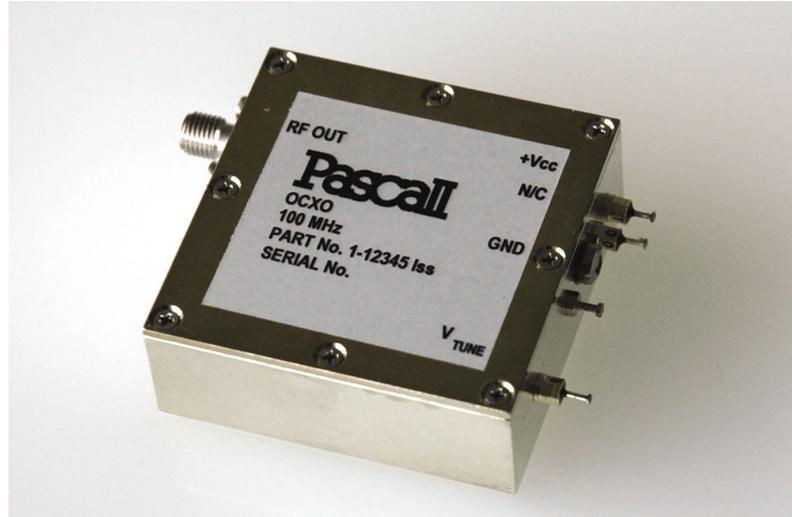




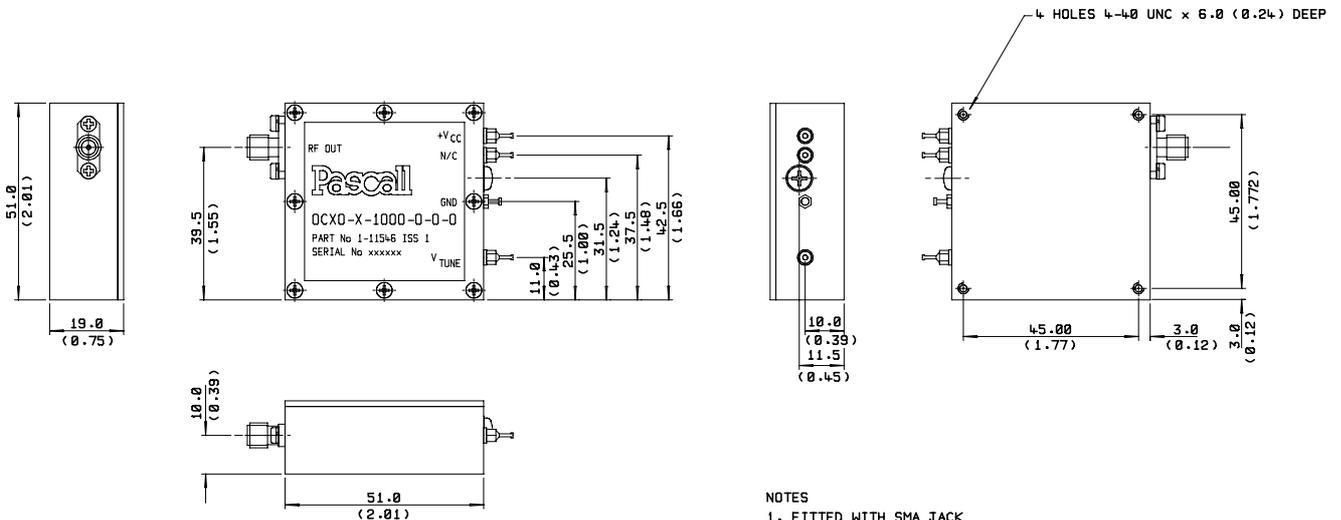
**OCXO SERIES - ULTRA LOW NOISE CRYSTAL OSCILLATORS**



Pascall OCXO series is designed to meet the increasing demand for high performance reference oscillators. Oven-controlled SC-cut crystals are used to give good temperature stability combined with the lowest possible phase noise.

The Oscillators are available with either mechanical or electrical tuning, with the option of a low noise reference voltage output to allow the oscillator to be tuned using an external potentiometer.

**Outline Drawing**



- NOTES  
1. FITTED WITH SMA JACK  
2. FINISH - BRIGHT TIN GENERALLY IN ACCORDANCE WITH MIL-T-10727 TYPE 1

**OCXO SERIES - ULTRA LOW NOISE CRYSTAL OSCILLATORS**

**Frequency range** 50 - 130MHz

**Tuning range** +/- 6 x 10<sup>-6</sup>

**Tune voltage** 0 - 10V, positive slope

**Temperature stability** -30 to 70°C: +/- 2 x 10<sup>-7</sup>

**Aging/ year** 0.5 x 10<sup>-6</sup> after 30 days

**Output power** 13dBm ± 2dB, 50Ω

**Harmonics** -20dBc

**Phase noise for 100MHz unit**

Minimum guaranteed performance	100Hz	1kHz	10kHz offsets
level 5	-120	-150	-174 dBc/Hz
level 4	-125	-155	-175 dBc/Hz
level 3	-130	-158	-176 dBc/Hz
level 2	-132	-160	-176 dBc/Hz
level 1	-135	-162	-176 dBc/Hz

For any other performance levels, please consult the factory

**Supply voltage** +12V +/-5%

**Power consumption at 25°C** steady state 2.5W, warm-up 5W (<5 mins)

**RF output connector** SMA jack

**Dimensions** 51.0 x 51.0 x 19.0mm

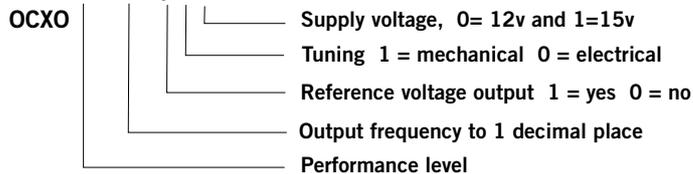
**Options** Reference voltage output - 10.6V nominal (source impedance 10kΩ in parallel with 10μF)

Mechanical tuning +/-6 x 10<sup>-6</sup>

Supply voltage +15V ±5%

**Ordering Information**

**OCXO-A-XXXX-y-z-a**



To summarise:

a part number depicted as follows: OCXO-1-0975

This shows an OCXO with level 1 performance, 97.5MHz frequency, with reference voltage output, tuning = mechanical and 12v operation.