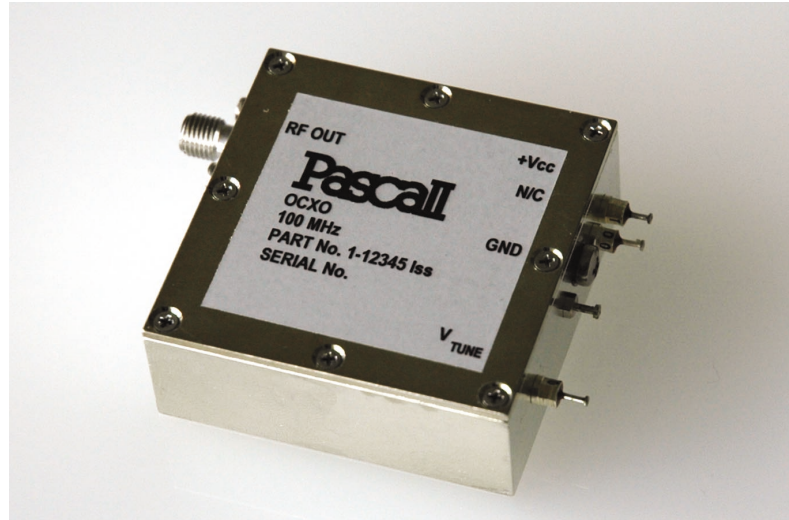


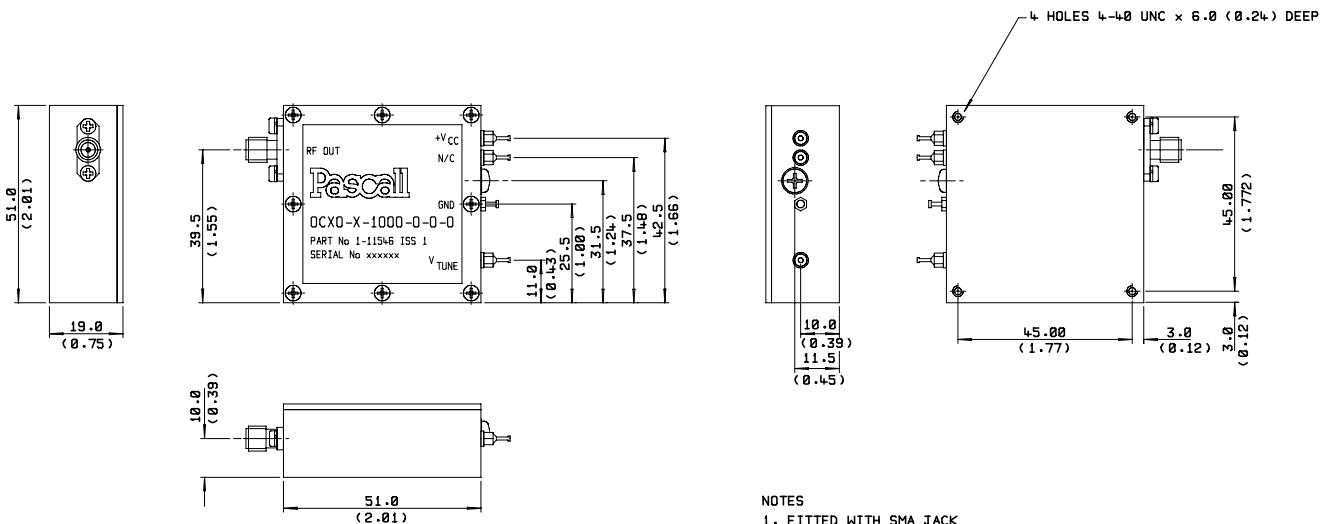
OCXO SERIES - ULTRA LOW NOISE CRYSTAL OSCILLATORS



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



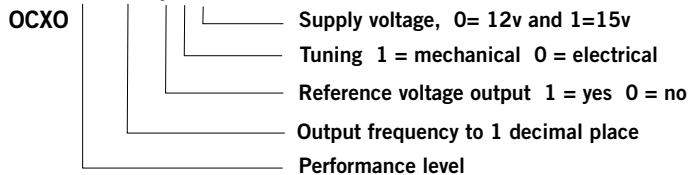
- NOTES
1. FITTED WITH SMA JACK
2. FINISH - BRIGHT TIN GENERALLY IN ACCORDANCE WITH MIL-T-10727 TYPE 1

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Frequency range	50 - 130MHz																								
Tuning range	+/- 6 x 10 ⁻⁶																								
Tune voltage	0 - 10V, positive slope																								
Temperature stability	-30 to 70°C: +/- 2 x 10 ⁻⁷																								
Aging/ year	0.5 x 10 ⁻⁶ after 30 days																								
Output power	13dBm ± 2dB, 50Ω																								
Harmonics	-20dBc																								
Phase noise for 100MHz unit	<table border="1"> <thead> <tr> <th>Minimum guaranteed performance</th> <th>100Hz</th> <th>1kHz</th> <th>10kHz offsets</th> </tr> </thead> <tbody> <tr> <td>level 5</td> <td>-120</td> <td>-150</td> <td>-174 dBc/Hz</td> </tr> <tr> <td>level 4</td> <td>-125</td> <td>-155</td> <td>-175 dBc/Hz</td> </tr> <tr> <td>level 3</td> <td>-130</td> <td>-158</td> <td>-176 dBc/Hz</td> </tr> <tr> <td>level 2</td> <td>-132</td> <td>-160</td> <td>-176 dBc/Hz</td> </tr> <tr> <td>level 1</td> <td>-135</td> <td>-162</td> <td>-176 dBc/Hz</td> </tr> </tbody> </table> <p>For any other performance levels, please consult the factory</p>	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
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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	<p>Reference voltage output - 10.6V nominal (source impedance 10kΩ in parallel with 10μF)</p> <p>Mechanical tuning +/-6 x 10⁻⁶</p> <p>Supply voltage +15V ±5%</p>																								

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.