

# High Stability OCXOs

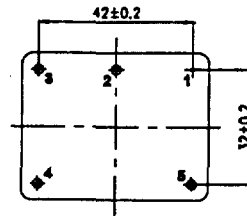
## OCXO - Pilot Series



### Features

- Precision-OCXO
- 4.098 to 16.384MHz
- -20 to +70°C
- Ultra high stab.
- Sinewave output

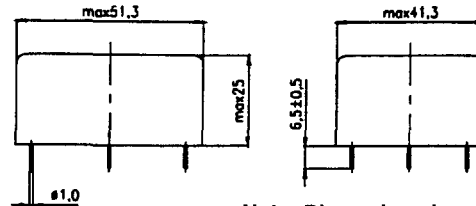
Other package sizes available



Pin Configuration:

1. Ground, case, potentiometer
2. Potentiometer SL (VC in)
3. Potentiometer (Vref out)
4. Supply voltage
5. RF output

Other package sizes available



Note: Dimensions in mm

## SPECIFICATIONS

Frequency range:	4.096 MHz to 16.384 MHz	
Standard frequencies (1):	4.096; 4.9152; 5.0; 5.115; 5.120; 5.184; 6.4; 8.192; 9.8304; 10.0; 10.23; 10.24; 10.368 MHz	
Standard frequencies (2), multiplied frequencies:	12.0; 12.8; 13.0; 14.4; 16.384 MHz	
Type:	B	C
Frequency stability: in the temperature range - 20°C to +70°C:	<±2.5x10 <sup>-8</sup> (1) <±5x10 <sup>-8</sup> (2) <±1x10 <sup>-7</sup> (3)	<±5x10 <sup>-9</sup> (1) <±1x10 <sup>-8</sup> (2) <±2x10 <sup>-8</sup> (3)
vs. supply voltage changes UB±5%:	<±2x10 <sup>-9</sup>	<±1x10 <sup>-9</sup>
vs. load changes 50 Ohm ±10%:	<±2x10 <sup>-9</sup>	<±1x10 <sup>-9</sup>
Long term stability after 30 days of operation:	<±3x10 <sup>-9</sup> per day <±1x10 <sup>-7</sup> per year	<±5x10 <sup>-10</sup> per day <±5x10 <sup>-8</sup> per year
Short term stability:	<±1x10 <sup>-11</sup> (typ. 5x10 <sup>-12</sup> )	
Frequency control range with ext. trimmer 20 kOHM or external voltage 1 to 5 V:	≥±4x10 <sup>-7</sup>	≥±3x10 <sup>-7</sup>
Supply voltage UB:	12V±10%	
Current consumption at steady state @ -20°C: @ +25°C:	<40 mA <30 mA	<110 mA <85 mA
Peak consumption during warm-up:	<400 mA	<600 mA
Warm-up time: within ≤±1x10 <sup>-7</sup>  within ≤±5x10 <sup>-8</sup>	<7 min. @ -20°C <5 min. @ +25°C <8.5 min. @ -20°C <7.0 min. @ +25°C	
Temperature ranges: Operating: Storage:	-20°C to +70°C -55°C to +85°C	
Output voltage: level:	Sinewave >225 mV into 50 Ohm load	
Phase noise: 1 Hz 10 Hz 100 Hz 1000 Hz	Frequencies (1) -95 dBc/Hz -130 dBc/Hz -150 dBc/Hz -155 dBc/Hz	Frequencies (2) -93 dBc/Hz -123 dBc/Hz -140 dBc/Hz -150 dBc/Hz