

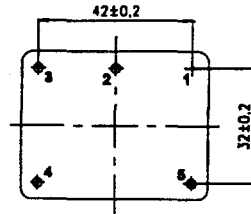
High Stability OCXOs

OCXO - Pride Series



Features

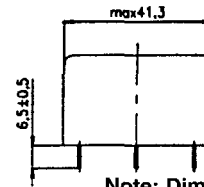
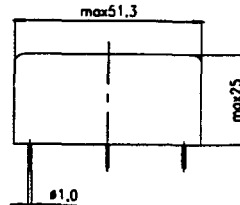
- Precision-OCXO
- SC cut crystal
- 4.096 to 16.384MHz
- Ultra high stability
- HCMOS output



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):	8.192; 10.0; 12.0; 12.8; 13.0; 14.0; 14.4; 16.384 MHz	
Type:	A	B
Frequency stability: in the temperature range -25°C to +70°C:	$< \pm 5 \times 10^{-10}$ (1) $< \pm 1 \times 10^{-9}$ (2) $< \pm 2 \times 10^{-9}$ (3)	
vs. supply voltage changes $U_B \pm 10\%$: vs. load changes 50 Ohm $\pm 10\%$:	$< \pm 3 \times 10^{-10}$ $< \pm 3 \times 10^{-10}$	
Long term stability after 30 days of operation:	$< \pm 5 \times 10^{-10}$ per day $< \pm 5 \times 10^{-8}$ per year $< \pm 3 \times 10^{-7}$ in 10 years	
Short term stability (allan variance) 1 s:	$< 5 \times 10^{-12}$	
Frequency control range with ext. trimmer 20 kOHM or external voltage 1 to 5 V:	$\geq \pm 3 \times 10^{-7}$	
Supply voltage U_B :	12V $\pm 10\%$	
Current consumption at steady state @ -25°C: @ +25°C:	< 250 mA < 200 mA	
Peak consumption during warm-up:	< 500 mA	
Warm-up time: within $\leq \pm 1 \times 10^{-7}$ within $\leq \pm 5 \times 10^{-8}$	< 7 min. @ -20°C < 5 min. @ +25°C < 8.5 min. @ -20°C < 7.0 min. @ +25°C	
Temperature ranges: Operating: Storage:	-25°C to +70°C -55°C to +85°C	
Output voltage: Load: Duty cycle: Harmonic suppression:	Sinewave > 225 mV 50 Ohm >30dB	HCMOS 1kOhm // 15pF 45% to 55%
Typ. phase noise: 1 Hz 10 Hz 100 Hz 1000 Hz 10000 Hz	-100 dBc/Hz -120 dBc/Hz -145 dBc/Hz -155 dBc/Hz -155 dBc/Hz	-95 dBc/Hz -115 dBc/Hz -140 dBc/Hz -150 dBc/Hz -150 dBc/Hz