

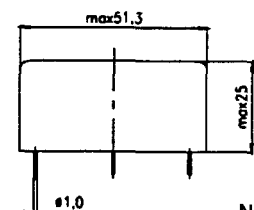
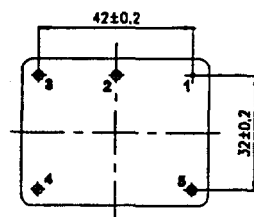
High Stability OCXOs

OCXO - Delta Series



Features

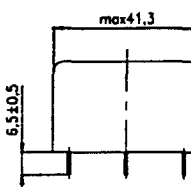
- Precision-OCXO
- 2.048 to 16.384MHz
- -20 to +70°C
- Ultra high stab.
- HCMOS output



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:	2,048 MHz to 16.384 MHz	
Standard frequencies (1):	4.096; 5.0; 5.120; 6.4; 8.192; 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:	$< \pm 2.5 \times 10^{-8}$ (1) $< \pm 5 \times 10^{-8}$ (2) $< \pm 1 \times 10^{-7}$ (3)	$< \pm 5 \times 10^{-9}$ (1) $< \pm 1 \times 10^{-8}$ (2) $< \pm 2 \times 10^{-8}$ (3)
vs. supply voltage changes $U_B \pm 5\%$: vs. load changes 50 Ohm $\pm 10\%$:	$< \pm 2 \times 10^{-9}$ $< \pm 2 \times 10^{-9}$	$< \pm 1 \times 10^{-9}$ $< \pm 1 \times 10^{-9}$
Long term stability after 30 days of operation:	$< \pm 3 \times 10^{-9}$ per day $< \pm 1 \times 10^{-7}$ per year	$< \pm 5 \times 10^{-10}$ per day $< \pm 5 \times 10^{-8}$ per year
Short term stability:	$< \pm 1 \times 10^{-11}$	
Frequency control range with ext. trimmer 20 kOHM or external voltage 1 to 5 V:	$\geq \pm 4 \times 10^{-7}$	$\geq \pm 3 \times 10^{-7}$
Supply voltage U_B :	12V $\pm 10\%$	
Current consumption at steady state @ -20°C: @ +25°C:	< 50 mA < 40 mA	< 120 mA < 95 mA
Peak consumption during warm-up:	< 400 mA	< 600 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:	-20°C to +70°C -55°C to +85°C	
Output voltage: load: duty cycle:	HCMOS Low < 1.0 V; High > 4.0 V 1 kOHM // 15pF max. 2 TTL or 10 HCMOS 45/55%	
Phase noise:	Frequencies (1)	Frequencies (2)
1 Hz	-85 dBc/Hz	-80 dBc/Hz
10 Hz	-120 dBc/Hz	-115 dBc/Hz
100 Hz	-130 dBc/Hz	-130 dBc/Hz
1000 Hz	-140 dBc/Hz	-140 dBc/Hz
10000 Hz	-150 dBc/Hz	-150 dBc/Hz



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