

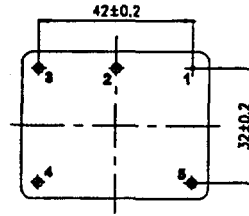
High Stability OCXOs

OCXO - Delta Series



Features

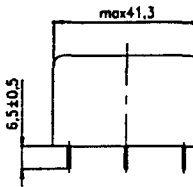
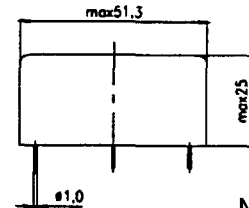
- Precision-OCXO
- 2.048 to 16.384MHz
- -20 to +70°C
- Ultra high stab.
- HCMOS output



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:	<±2.5x10 ⁻⁸ (1) <±5x10 ⁻⁸ (2) <±1x10 ⁻⁷ (3)	<±5x10 ⁻⁹ (1) <±1x10 ⁻⁸ (2) <±2x10 ⁻⁸ (3)
vs. supply voltage changes UB±5%:	<±2x10 ⁻⁹	<±1x10 ⁻⁹
vs. load changes 50 Ohm ±10%:	<±2x10 ⁻⁹	<±1x10 ⁻⁹
Long term stability after 30 days of operation:	<±3x10 ⁻⁹ per day <±1x10 ⁻⁷ per year	<±5x10 ⁻¹⁰ per day <±5x10 ⁻⁸ per year
Short term stability:	<±1x10 ⁻¹¹	
Frequency control range with ext. trimmer 20 kOHM or external voltage 1 to 5 V:	≥±4x10 ⁻⁷	≥±3x10 ⁻⁷
Supply voltage UB:	12V ±10%	
Current consumption at steady state @ -20°C:	<50 mA	<120 mA
@ +25°C:	<40 mA	<95 mA
Peak consumption during warm-up:	<400 mA	<600 mA
Warm-up time: within ≤±1x10 ⁻⁷	<7 min. @ -20°C <5 min. @ +25°C	
within ≤±5x10 ⁻⁸	<8.5 min @ -20°C <7.0 min. @ +25°C	
Temperature ranges: Operating:	-20°C to +70°C	
Storage:	-55°C to +85°C	
Output voltage: load: duty cycle:	HCMOS Low <1.0V; High >4.0V 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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