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ACTOCXO50



FEATURES

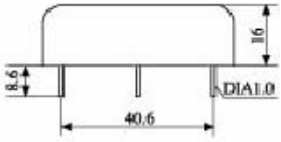
- Stability to ±0.003PPM
- Low Aging
- Compact Package
- Measurement Equipment

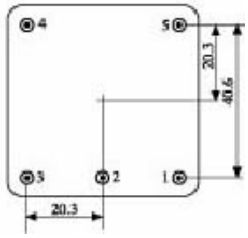
APPLICATIONS

- PCS / Cellular Base Station
- Digital Switching
- Synthesizer
- **SC Cut OCXO** – Please enquire

SPECIFICATIONS

Frequency Range	1.0 ~ 160MHz
Frequency Accuracy (Adjustment 25°C)	±0.05 PPM (Centre control voltage)
Frequency Stability vs Temperature	See Table 1
Aging (AT Cut)	±0.001PPM/day, first year ±0.1PPM, 10 years ±1PPM
(SC Cut)	±0.001PPM/day, first year ±0.1PPM, 10 years ±1PPM
Output Type and Load Characteristics	See Table 2
Frequency Stability vs Load	±0.02PPM vs ±10% load change
Supply Voltage	+5.0VDC, +12.0VDC (3V3 Custom option)
Frequency Stability vs Voltage	±0.02PPM vs ±5% voltage change
Supply Consumption	4.0W (Max.) warm-up; 2.0W (Max.) static
Warm-up Time	±0.3PPM, <1 min.
Adjustable Frequency Range	±7.0PPM
Control Voltage Range	0~5V
Slope	Positive
Linearity	±10%
Phase Noise (10MHz SC-Cut)	1Hz, -80dBc/Hz
	10Hz, -115dBc/Hz
	100Hz, -135dBc/Hz
	1kHz, -145dBc/Hz
	10kHz, -150dBc/Hz
Storage Temperature Range	-40~+100°C





(Unit: mm)

FREQUENCY STABILITY vs TEMPERATURE – TABLE 1

(Applies to frequencies < 20MHz & to 12v0 supply. For frequencies >20MHZ & 3v3 & 5v0 Stabilities will be lower –Please enquire)

Frequency Stability vs Temperature	Temperature Range
±0.01PPM (AT Cut)	0 - +50°C
±0.03PPM (AT Cut)	-20 - +70°C
±0.05PPM (AT Cut)	-40 - +75°C

PIN FUNCTION:

PIN1 – Voltage Control
PIN 2 – Reference voltage / NC
PIN3 – Output
PIN4 – GND
PIN5 – Power Supply

Compatible with Eu Directive 2002/EC - RoHS

OUTPUT TYPE AND LOAD CHARACTERISTICS – TABLE 2

Output Waveform	Frequency Range	Oscillation State	Output Characteristics
Clipped Sine Wave	8MHz - 30MHz 10MHz – 160MHz	F: Fundamental O: Overtone	Load: 10kΩ/10pF Output level: >1Vp-p
TTL	1MHz - 30MHz 10MHz – 160MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL gates “1” level: >+2.4VDC; “0” level: <+0.2VDC Duty cycle: 45/55 Rise/fall time: <6ns
HCMOS	1MHz - 30MHz 10MHz – 160MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL/HCMOS “1” level: >+4.3VDC; “0” level: <+0.5VDC Duty cycle: 45/55 Rise/fall time: <6ns
ACMOS	1MHz - 30MHz 10MHz – 160MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL/ACMOS “1” level: >+4.3VDC; “0” level: <+0.5VDC Duty cycle: 45/55 Rise/fall time: <6ns
Sine Wave	8MHz - 30MHz 10MHz - 160MHz	F: Fundamental O: Overtone	Load: Nominal value 50Ω Output level: >2dBm Harmonic Attenuation: >-25dB Noise Attenuation: >-60dB

Please note that all parameters cannot necessarily be specified in one device.

Customer to specify : Frequency, Output, Voltage, Stability, and Operating Temperature

In line with our ongoing policy of product improvement and evolvement the above specification may be subject to change without notice

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