

ACTOCXO25

■ Stabilities to ±0.01PPM (AT Cut)

■ Low Aging

Voltage Controlled Frequency Adjustment

■ Measurement Equipment

SPECIFICATIONS

FEATURES

Frequency Range 1~160MHz

Frequency Accuracy (Adjustment 25°C) ±0.5PPM (Centre control voltage)

Frequency Stability vs Temperature See Table 1

Aging (AT Cut) ±0.002PPM/day, first year ±0.3PPM, 10 years ±2PPM (SC Cut) ±0.001PPM/day, first year ±0.1PPM, 10 years ±0.5PPM

Output Type and Load Characteristics See Table 2

Frequency Stability vs Load ±0.02PPM vs ±10% load change
Supply Voltage +3.3VDC, +5.0VDC, +12.0VDC
Frequency Stability vs Voltage ±0.02PPM vs ±5% voltage change

Supply Consumption 3.0W (max.) warm-up; 1.2W (max.) static

Warm-up Time (AT Cut) ±0.1PPM, <1 min. (SC Cut) ±0.03PPM, <1 min.

Adjustable Frequency Range (AT Cut) ±7.0PPM

(SC Cut) ± 1.0 PPM Control Voltage Range $0\sim 5$ V Slope Positive Linearity $\pm 10\%$

Phase Noise (10MHz) 1Hz, -80dBc/Hz

10Hz, -120dBc/Hz 100Hz, -140dBc/Hz 1kHz, -145dBc/Hz 10kHz, -150dBc/Hz

Storage Temperature Range -40~+100°C

APPLICATIONS 2002/EC - RoHS

PCS /Cellular Base Station

Digital Switching

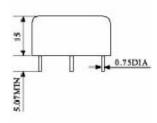
Synthesizer

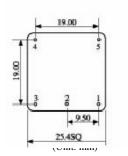
■ SC Cut OCXO please enquire

Compatible with Eu Directive



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PIN FUNCTION:

PIN1 – Output PIN2 – GND

PIN3 - Control Voltage/NC

PIN4 - Reference Voltage/NC

PIN5 – Power Supply

FREQUENCY STABILITY VS TEMPERATURE - TABLE 1

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

applies to frequencies (2011) at to 5 to supply. For frequencies (2011) at 12 to 42 5 to submitted with the former		
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	

OUTPUT TYPE AND LOAD CHARACTERISTIC - TABLE 2

Output Waveform	Frequency Range	Oscillation State	Output Characteristics
Clipped Sine	8MHz - 30MHz	F: Fundamental	Load: 10kΩ/10pF
Wave	10MHz - 100MHz	O: Overtone	Output level: >1Vp-p
TTL	1MHz - 30MHz 10MHz - 100MHz	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 - 100MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL/HCMOS "1" level: >+4.3VDC; "0" level: <+0.2VDC Duty cycle: 45/55 Rise/fall time: <6ns
ACMOS	1MHz - 30MHz 10MHz - 100MHz	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

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

Issue : 3 S8 Date: 14/09/06