ACTOCXO20   SC Cut OXCO Please Enquire

Compatible with Eu Directive
2002/EC - RoHS

FEATURES

- Stability to ±0.02PPM
- Low Aging
- Voltage Controlled Frequency Adjustment
- Measurement Equipment

APPLICATIONS

- PCS / Cellular Base Stations
- Digital Switching
- Synthesizer
- **SC Cut OXCO** Please Enquire

SPECIFICATIONS

Frequency Range	1.0 ~ 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
Frequency Stability vs Voltage	±0.02PPM vs ±5% voltage change
Supply Consumption	3.6W (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)	AT Cut ±7.0PPM, Control Voltage Range 0~5V
Slope	Positive
Linearity	±10%
Phase Noise (10MHz SC-Cut)	10Hz, -120dBc/Hz
	100Hz, -140dBc/Hz
	1kHz, -145dBc/Hz
	10kHz, -150dBc/Hz
Storage Temperature Range	-40~+100° C
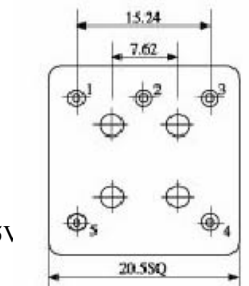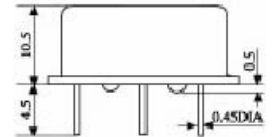
(Unit: mm)

PIN FUNCTION:

PIN1 – Power Supply

PIN2 – Output

PIN3 – GND

PIN4 – Control Voltage

PIN5 – Reference Voltage/NC

FREQUENCY STABILITY vs TEMPERATURE – TABLE 1

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

Frequency Stability vs Temperature	Temperature Range
±0.020PPM (AT Cut)	0 - +50° C
±0.050PPM (AT Cut)	-20 - +70° C
±0.100PPM (AT Cut)	-40 - +75° C

OUTPUT TYPE AND LOAD CHARACTERISTICS – TABLE 2

Output Waveform	Frequency Range	Oscillation State	Output Characteristics
Clipped Sine Wave	8MHz - 30MHz 10MHz - 100MHz	F: Fundamental O: Overtone	Load: 10kΩ/10pF 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: <+0.5VDC 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: >+4.3 VDC; "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

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