Hang Crystal International

OCXO UNIT
OD36x5

OVEN CONTROLLED CRYSTAL OSCILLATOR UNIT IN THRU-HOLE 36x27MM METAL CAN PACKAGE.

PRODUCT FEATURES

- High accuracy OCXO 36x27x11 with 5 leads.
- Various frequency stabilities being available.
- Excellent low aging and short term stability.
- Output signal with very low phase noise.
- Optional control voltage and reference voltage.

PRODUCT PHOTO (NOT IN SCALE)

APPLICATIONS

- Base station
- Telecom equipment
- Satellite equipment
- Test equipment

PRODUCT SPECIFICATIONS

PARAMETER	OD36H5 / OD36S5 / OD36T5	CONDITIONS / REMARKS
Nominal frequency range	10 ~ 160MHz	See Note
Supply voltage	5.0V_{DC} / 12.0V_{DC}	–
Power consumption (warm up)	<4W	May vary depending on supply voltage used.
(steady state)	<1.5W	
Operating temperature range	–20 to +70°C or –40 to 85°C	Other options available.
Output waveform HCMOS	V_{OH} ≥90%V_{CC} / V_{OL} ≤10%V_{CC}	Model **OD36H5**
Output waveform SINEWAVE	≥5dBm / ≥7dBm	Model **OD36S5**
Output waveform TTL	V_{OH} ≥2.4V / V_{OL} ≤0.4V	Model **OD36T5**

Note: Typical frequencies 10MHz, 15.36MHz, 16.384MHz, 19.44MHz, 20MHz, 25MHz, 50MHz, 100MHz

FREQUENCY SPECIFICATIONS (dependent on crystal type)

PARAMETER	for SC-cut crystal	for AT-cut crystal
Frequency tolerance (@+25°C)	±100ppb ~ ±500ppb	EOL
Frequency stability (Note 1)	±0.05ppb / ±1ppb / ±10ppb	
Short term stability	±0.01ppb/s	
Stability versus voltage	±0.5ppb	
Aging rate DAILY	±0.3ppb / ±0.5ppb / ±1.0ppb	
ANNUALLY	±30ppb / ±50ppb / ±100ppb	
Frequency adjustment (Note 2)	0.5 ~ 2.0ppm	
Phase noise @10Hz	-102dBc/Hz	
Example for Sinewave @100Hz	-135dBc/Hz	
Output 100MHz 12V @1kHz	-162dBc/Hz	
@10kHz	-175dBc/Hz	
@100kHz	-180dBc/Hz	

Note 1: Frequency stability is the frequency deviation over operating temperature range.
Note 2: Frequency adjustment applies for the option with Control Voltage function, refer to page 2.

Suzhou HangJing Elec&Tech Co., Ltd. ◆ Http://www.hci.com.hk ◆ No.1,First Qunxing Rd,Suzhou Industrial Park,Jiangsu,China
Telephone:+86 (0)512 6591 6689 ◆ Mobile phone:+86 (0)13819495058 ◆ e-mail: tony@hci.com.hk

Hang Crystal International

OCXO UNIT
OD36x5

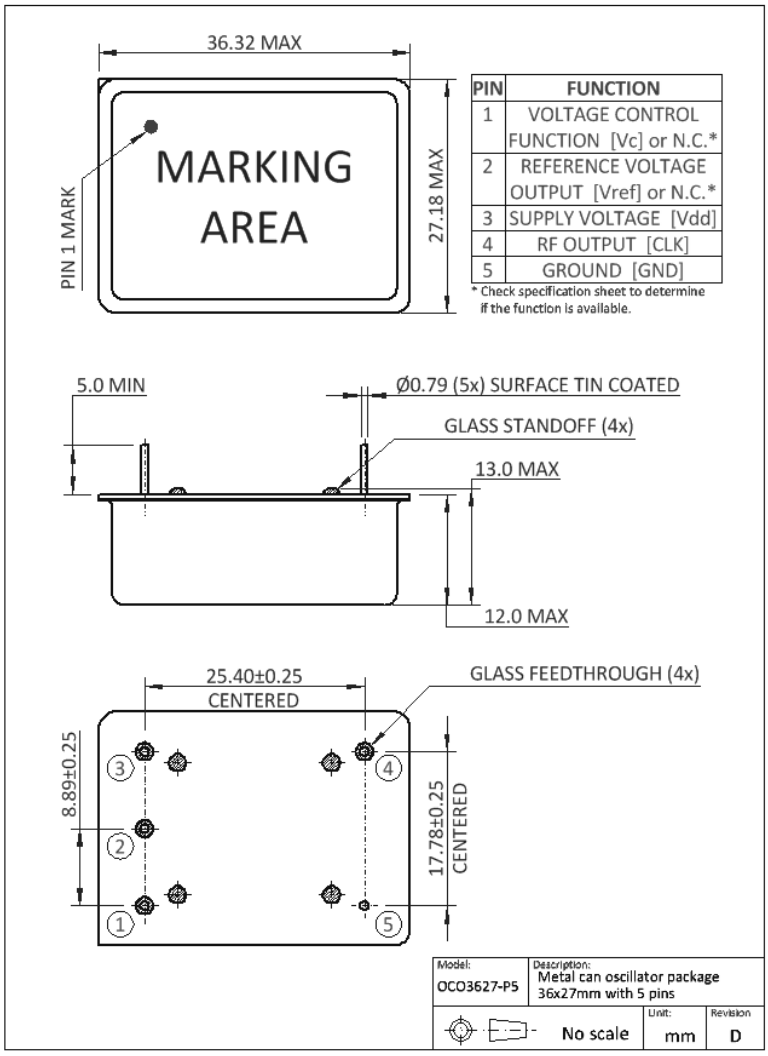
OVEN CONTROLLED CRYSTAL OSCILLATOR UNIT IN THRU-HOLE 36X27MM METAL CAN PACKAGE.

AVAILABLE OPTIONS

PARAMETER	for 3.3V		for 5.0V		for 12.0V
Control voltage range (Note 1)	0~2.8V_{DC}	0~3.3V_{DC}	0~4.0V_{DC}	0~5.0V_{DC}	0~5.0V_{DC}
Frequency stability (Note 1)	1.4V_{DC}	1.65V_{DC}	2.0V_{DC}	2.5V_{DC}	2.5V_{DC}
Reference voltage (Note 2)	2.8V_{DC}	N/A	4.0V_{DC}	N/A	5.0V_{DC}

Note 1: Applies for option with a Control Voltage Input.
Note 2: Applies for option with a Reference Voltage output.

PACKAGE OUTLINE / DIMENSIONS



PACKAGING INFORMATION

- Packaging in antistatic foam tray.
- QTY per tray: 10~20pcs

ENVIRONMENTAL COMPLIANCE INFORMATION

- Product is RoHS and RoHS 2 compliant.
- Product is built using a LEAD-FREE solder alloy, if required a high melting point solder alloy can be used as well.

Suzhou HangJing Elec&Tech Co., Ltd. ◆ Http://www.hci.com.hk ◆ No.1,First Qunxing Rd,Suzhou Industrial Park,Jiangsu,China
Telephone:+86 (0)512 6591 6689 ◆ Mobile phone:+86 (0)13819495058 ◆ e-mail: tony@hci.com.hk