Hang Crystal International

OCXO UNIT

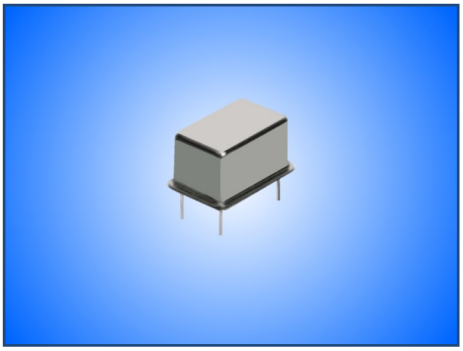
5214x4

OVEN CONTROLLED CRYSTAL OSCILLATOR UNIT IN DIP-14 METAL CAN PACKAGE.

PRODUCT FEATURES

- High accuracy OCXO 20x13x10 with 4 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	5214H4 /5214S4 / 5214T4	CONDITIONS / REMARKS
Nominal frequency range	5 ~ 100MHz	See Note
Supply voltage	3.3V_{DC} / 5.0V_{DC} / 12.0V_{DC}	–
Power consumption (warm up)	<3.0W	May vary depending on supply voltage used.
(steady state)	<1.5W	
Operating temperature range	-40 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 5214H4
Output waveform SINEWAVE	≥6dBm / ≤10dBm	Model 5214S4
Output waveform TTL	V_{OH} ≥2.4V / V_{OL} ≤0.4V	Model 5214T4

Note: Typical frequencies 10MHz, 16.384MHz, 19.44MHz, 20MHz, 25MHz, 26MHz, 38.88MHz, 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)	±1ppb / ±5ppb / ±10ppb	
Short term stability	±0.05ppb/s	
Stability versus voltage	±3ppb	
Aging rate DAILY	±1ppb / ±3ppb / ±10ppb	
ANNUALLY	±30ppb / ±50ppb / ±300ppb	
Frequency adjustment (Note 2)	0.5 ~ 2.0ppm	
Phase noise @10Hz	-92dBc/Hz	
Example for Sinewave @100Hz	-123dBc/Hz	
Output 100MHz unit @1kHz	-152dBc/Hz	
@10kHz	-165dBc/Hz	
@100kHz	-165dBc/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.

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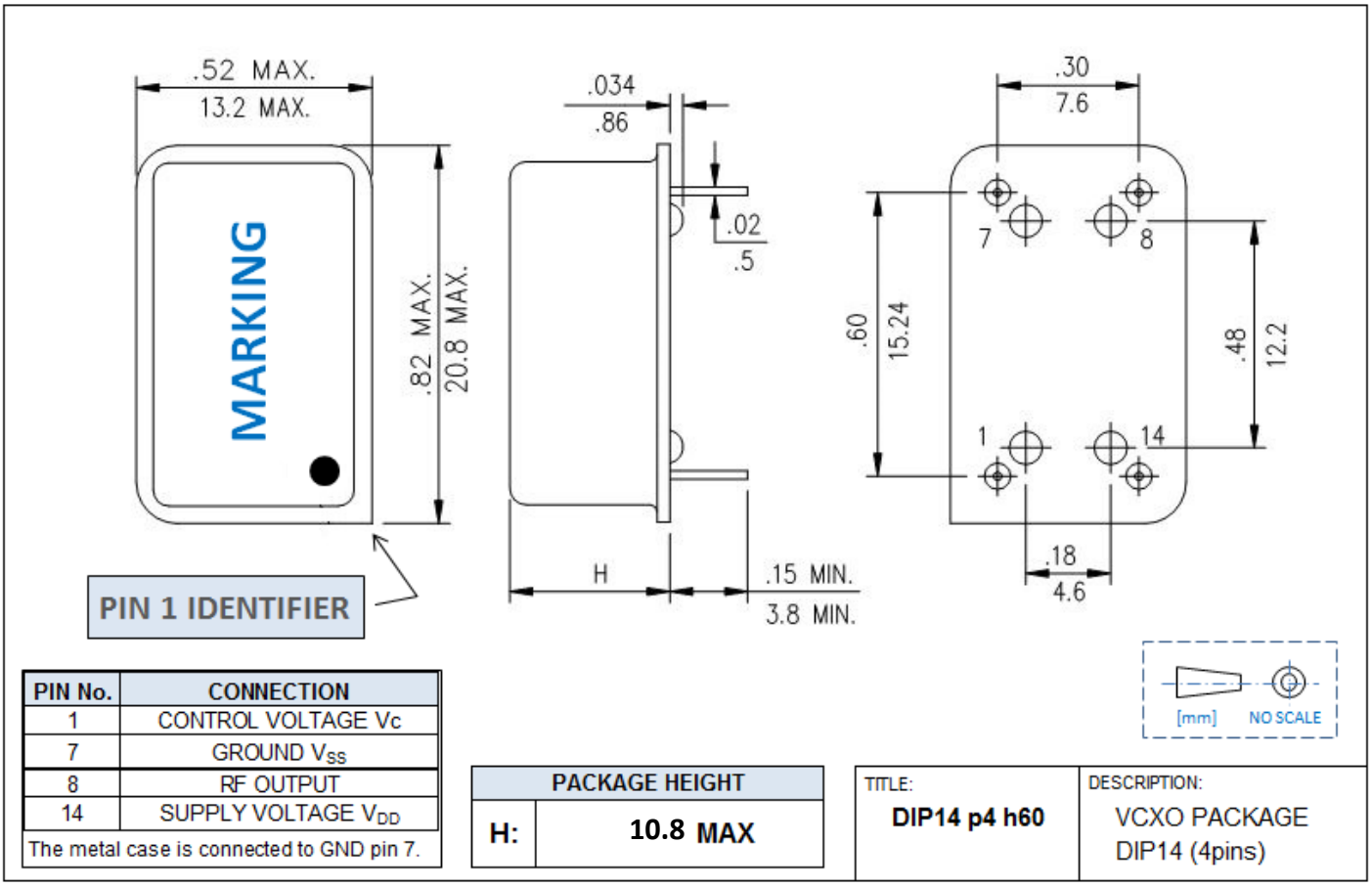
AVAILABLE OPTIONS

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

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

PACKAGE OUTLINE / DIMENSIONS



PIN No.	CONNECTION
1	CONTROL VOLTAGE Vc
7	GROUND V_{SS}
8	RF OUTPUT
14	SUPPLY VOLTAGE V_{DD}

The metal case is connected to GND pin 7.

PACKAGE HEIGHT	
H:	10.8 MAX

TITLE:	DESCRIPTION:
DIP14 p4 h60	VCXO PACKAGE DIP14 (4pins)

PACKAGING INFORMATION

- Packaging in antistatic foam tray.
- QTY per tray: 50~100pcs

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.

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