

**OSCILLATOR UNIT WITH CMOS OUTPUT IN DIP-14 METAL PACKAGE.**
**PRODUCT FEATURES**

- DIP-14 METAL PACKAGE.
- Tight stabilities over temperature range.
- Tri-state enable/ disable function (PIN 1).
- ROHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

**PRODUCT PHOTO (NOT IN SCALE)**

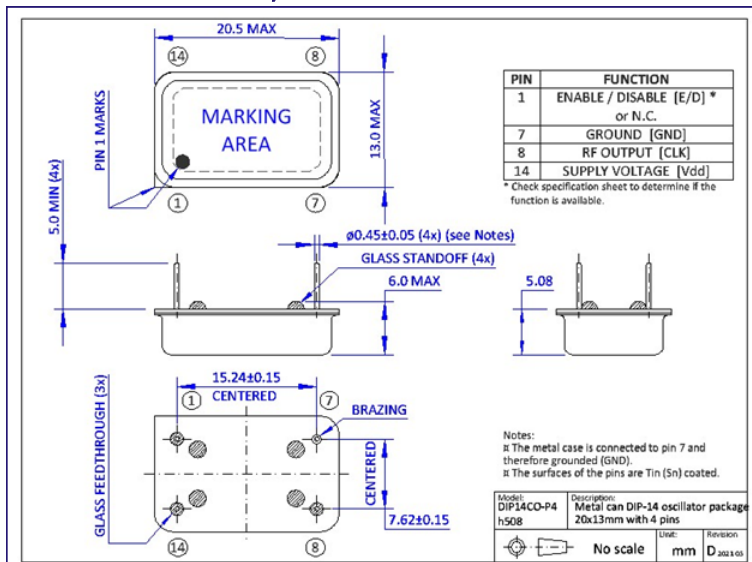
**APPLICATIONS**

- Industrial control board

**PRODUCT SPECIFICATIONS**

PARAMETER	SUPPLY VOLTAGE			REMARKS
	2.5V	3.3V	5.0V	
Frequency range	0.137~133MHz	0.137~166MHz	0.137~133MHz	32.768kHz available
Frequency stability	±20ppm / ±25ppm / ±50ppm			See note below
Operating temperature range	-10 to +60°C / -20 to +70°C / -40 to +85°C			Options up to +125°C
Aging first year	±3.0ppm			@+25°C
Supply current	3~15mA	5~15mA	10~30mA	1~30~75MHz @15pF
	25mA	30mA	45mA	≥75~133MHz @15pF
	---	40mA	50mA	≥133MHz @15pF
Output waveform and load	HCMOS 15pF			30pF optional
Output voltage level HIGH	2.25V	2.97V	4.5V	Minimum
Output voltage level LOW	0.25V	0.33V	0.4V	Maximum
Rise and Fall times	6ns	6ns	10ns	1~100MHz @10~90% of V <sub>CC</sub>
	3ns	3ns	6ns	≥100MHz @10~90% of V <sub>CC</sub>
Symmetry (duty cycle)	45~55% or 40~60%			@ 50%V <sub>CC</sub>
Phase jitter RMS	<1ps			12kHz ≤ F <sub>j</sub> ≤ 20MHz

Note: Stability includes frequency deviations at +25°C, over temperature range, due to supply voltage

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Use tray or tube for packaging.
- QTY per tray: 50pcs.
- QTY per tube: 25pcs.

**RECOMMENDED WAVE SOLDER PROFILE**
