

OSCILLATOR UNIT WITH CMOS OUTPUT IN DIP-8 METAL PACKAGE.

PRODUCT FEATURES

- DIP-8 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

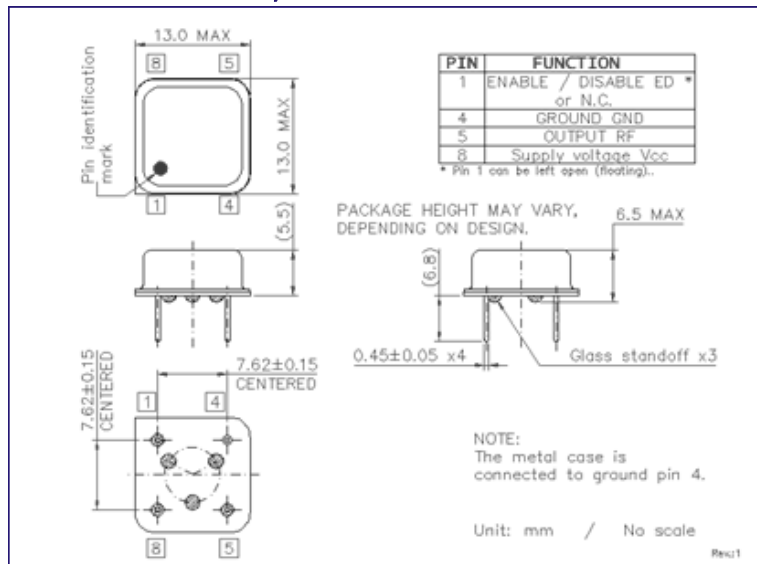
- Industrial control board

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	$\pm 20\text{ppm} / \pm 25\text{ppm} / \pm 50\text{ppm}$			See note below
Operating temperature range	-10 to $+60^{\circ}\text{C} / -20$ to $+70^{\circ}\text{C} / -40$ to $+85^{\circ}\text{C}$			Options up to $+125^{\circ}\text{C}$
Aging first year	$\pm 3.0\text{ppm}$			@ $+25^{\circ}\text{C}$
Supply current	3~15mA	5~15mA	10~30mA	1~30~75MHz @15pF
	25mA	30mA	45mA	$\geq 75\sim 133\text{MHz}$ @15pF
	---	40mA	50mA	$\geq 133\text{MHz}$ @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_{CC}
	3ns	3ns	6ns	$\geq 100\text{MHz}$ @10~90% of V_{CC}
Symmetry (duty cycle)	45~55% or 40~60%			@ 50% V_{CC}
Phase jitter RMS	$< 1\text{ps}$			$12\text{kHz} \leq F_j \leq 20\text{MHz}$

Note: Stability includes frequency deviations at $+25^{\circ}\text{C}$, 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: 40pcs.

RECOMMENDED WAVE SOLDER PROFILE

