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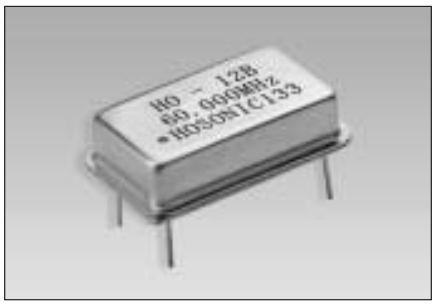
FULL SIZE CLOCK OSCILLATORS TTL/HCMOS COMPATIBLE

• HO-12&15 Series



The HO-12 series oscillator is TTL/ HCMOS compatible HO-15 series is with 3.3V powersupply voltage. The metal package with pin #7 case gr-ound acts as shielding to minimize EMI radiation.

FEATURES

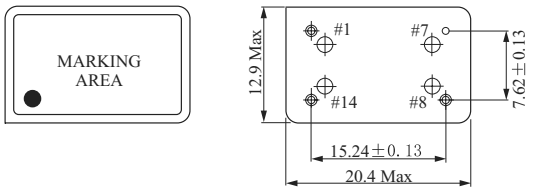
- TTL/HCMOS Output compatible
- 14 Pin Full Size
- Industry Standard
- Wide Frequency Range
- Low Cost
- Resistance Weld Package
- 3.3V available

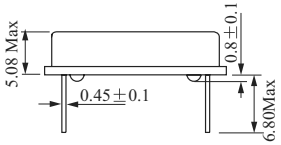
Electrical Specifications

Parameter			Condition	HO-12	HO-15
Frequency Range		F_O		0.5MHz~100.00MHz	0.5MHz~125.00MHz
Frequency Stability*			All Condition*	±25ppm, ±50ppm, ±100ppm	
Operating Temperature Range		T_{OPR}		0℃~70℃(-40℃~+85℃ option)	
Storage Temperature Range		T_{STG}		-55℃~+125℃	
Power supply Voltage		V_{DD}		5.0V+/-10%	3.3V+/-10%
Aging(First Year)			25℃±3℃	±5ppm	
Supply Current		I_{DD}	0.5MHz to 23.999MHz	20mA Max	15mA Max
			24.000MHz to 49.999MHz	30mA Max	20mA Max
			50.000MHz to 69.999MHZ	40mA Max	30mA Max
			70.000MHz to 125.000MHZ	60mA Max	45mA Max
Output Symmetry		Sym	$1/2V_{DD}$	40/60%(45/55% Option)	
Rise time		T_r	$10\%V_{DD}$~$90\%V_{DD}$	10 nS Max	8 nS Max
Fall Time		T_f	$90\%V_{DD}$~$10\%V_{DD}$	10 nS Max	8 nS Max
Output Voltage		V_{OH}		90% V_{DD} min	
		V_{OL}		10% V_{DD} max	
Output load	TTL Load			1~10TTL	1~5TTL
	HCMOS Load			~50M:50pF ~70M:30pF ~100M:15pF	~50M:30pF ~125M:15pF
Start-up Time			Ts	10mS Max	

**Include: 25℃ tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration*

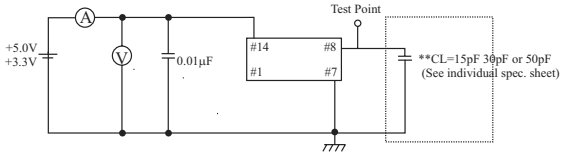
Mechanical Dimensions(mm)





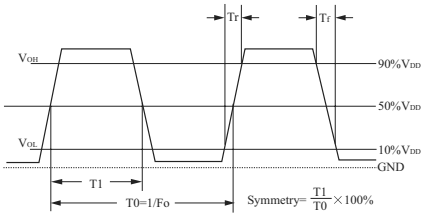
Pin	Connection
#1	N.C.
#7	GND
#8	Output
#14	V_{DD}

HCOMS Test Circuit



**Includes stray and probe capacitance

HOCMS Output Waveform



Clock Oscillator

TAIWAN:
HOSONIC ELECTRONIC CO., LTD.
23-1 LANE 84. CHUN YING ST. SHULIN CHEN.
TAIPEI 23804. TAIWAN. R.O.C.
☎: 886-2-86875200
: 886-2-26816456
WEB SITE:http://www.hosonic.com.tw

CHINA:
HANGZHOU HOSONIC ELECTRONIC CO., LTD.
XUNSHAN LIANGZHU TOWN MOGANSHAN ROAD
HANGZHOU, ZHEJIANG, CHINA
☎: (86)-571-88778189
: (86)-571-88778857

Specifications are subject to change without notice

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