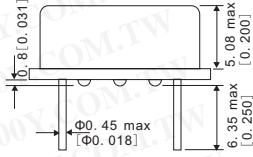
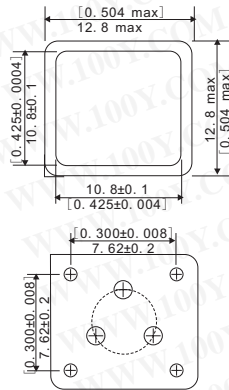


# Timing Function IC

## MEC\_H Series Clock Oscillators

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



Input Voltage (VDD)	V <sub>DD</sub> = +3.3 V D.C. ±5%	V <sub>DD</sub> = +5.0 V D.C. ±5%
Frequency Range (package dependent)	20 kHz ~ 125 Mhz	20 kHz ~ 160 Mhz
Output Logic	TTL / HCMOS	TTL / HCMOS
Start-up Time (Ts)	10 m Sec. max. 5 m Sec. Typical	
Current Consumption	15 ~ 45 mA (frequency dependent)	
Option on pin 1	Output is high impedance when "O" (≤8V) is applied to pin 1 Disable time is 150 n sec. Max. Please add "T" after the stability code for this option.	
Storage Temperature	-50°C to +100°C	
Aging	±5 ppm per year max.	

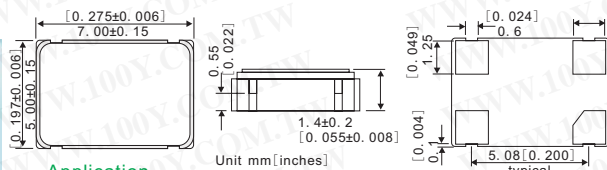
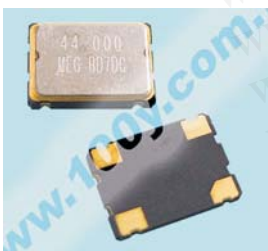
### APPLICATION

- CPU, graphics, multimedia A/V clocks
- MPEG / DVD / HDTV clocks
- Laser engine pixel / set-top clocks
- Spread spectrum low EMI clocks
- OC-3, OC-12, OC-48 and OC-192 clocks
- Fast Ethernet and Gigabit Ethernet clocks
- NTSC / PAL encoder/decoder clocks
- PLL / synthesizer clocks
- Fibre channel and ADSL clocks
- SONET / SDH / ATM clocks

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Tol. ±ppm	Operating Volt.	Input Current	Rise Fall time	Package
13473	3H8G-B-1.8432MHz	MEC	H Series Clock Oscillators	1.8432	±50ppm	3.3V	15~45mA	3ns Max	HALF CAN
13313	3H8G-B-100.000MHz	MEC	H Series Clock Oscillators	100.000	±50ppm	3.3V	15~45mA	3nS max.	Half Size
16842	3H8G-B-11.0592MHz	MEC	H Series Clock Oscillators	11.0592	±50ppm	3.3V&5.5V	15~45mA	10ns Max	HALF CAN
40824	3H8G-B-12.000MHz	MEC	H Series Clock Oscillators	12.000MHz	±50ppm	3.3V	15~45mA	3ns	HALF CAN
13400	3H8G-B-14.31818MHz	MEC	H Series Clock Oscillators	14.3181	±50ppm	3.3V	15~45mA	3ns	HALF CAN
13478	3H8G-B-16.000MHz	MEC	H Series Clock Oscillators	16.000MHz	±50ppm	3.3V	15~45mA	3ns	HALF CAN
13314	3H8G-B-18.432MHz	MEC	H Series Clock Oscillator	18.432	±50ppm	3.3V	15~45mA	10ns Max	HALF CAN
13315	3H8G-B-2.000MHz	MEC	H Series Clock Oscillators	2.000MHz	±50ppm	3.3V	15~45mA	3ns	HALF-Size
13064	3H8G-B-24.576MHz	MEC	H Series Clock Oscillators	24.576	±50ppm	3.3V	30mA	5ns	HALF CAN
3210	3H8G-B-25.000MHz	MEC	H Series Clock Oscillators	25.000	±50ppm	3.3V	15~45mA	3nS max.	HALF CAN
13401	3H8G-B-30.000MHz	MEC	H Series Clock Oscillators	30.000	±50ppm	3.3V	15~45mA	10ns Max	HALF CAN
13350	3H8G-B-32.000MHz	MEC	H Series Clock Oscillators	32.000	±50ppm	3.3V	15~45mA	3nS	HALF CAN
13062	3H8G-B-48.000MHz	MEC	H Series Clock Oscillators	48.000	±50ppm	3.3V	15~45mA	3nS	HALF CAN
13310	3H8G-B-50.000MHz	MEC	H Series Clock Oscillators	50.000	±50ppm	3.3V	15~45mA	3nS max.	HALF CAN
13063	3H8G-B-6.000MHz	MEC	H Series Clock Oscillators	6.000MHz	±50ppm	3.3V	15~45mA	3ns	HALF CAN
13311	3H8G-B-60.000MHz	MEC	H Series Clock Oscillators	60.000	±50ppm	3.3V	15~45mA	3nS max.	HALF CAN
13306	3H8G-B-8.000MHz	MEC	H Series Clock Oscillators	8.0000	±50ppm	3.3V&5V	15~45mA	3nS	HALF CAN
13402	3H8G-B-8.192MHz	MEC	H Series Clock Oscillators	8.192	±50ppm	3.3V	15~45mA	3ns	HALF CAN
46115	5H8G-A-14.7456MHz	MEC	H Series Clock Oscillator	14.7456	±25ppm	5V	15~45mA	3nS	HALF CAN
12974	5H8G-B-24.000MHz	MEC	O.S.C 8 Pins Crystal Clock Oscillators	24.000	+/-50ppm	5V	30mA	5ns max.	HALF CAN
6923	5H8G-B-24.576MHz	MEC	H Series Clock Oscillators	24.576	25ppm	5V	15~45mA	3ns	HALF CAN
6906	5H8G-B-33.000MHz	MEC	H Series Clock Oscillators	33.000	±50ppm	5V	30mA	5ns Max	HALF CAN
6907	5H8G-B-33.330MHz	MEC	H Series Clock Oscillator	33.330	±50ppm	5V	15~45mA	10ns Max	HALF CAN
13308	5H8G-B-40.000MHz	MEC	H Series Clock Oscillators	40.000	±50ppm	5V	15~45mA	10nS max.	HALF CAN
13719	5H8G-B-80.000MHz		O.S.C (Half Can) 8 Pins Crystal Clock Oscillators	80.000M	25ppm	5V	50mA	5ns	HALF CAN
6958	5H8G-B-9.6000MHz	MEC	H Series Clock Oscillators	9.6000MHz	±50ppm	5V	15~45mA	3ns	HALF CAN

## MEC\_SWO Series Clock Oscillators

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### Application

- CPU, graphics, multimedia A/V clocks
- MPEG / DVD / HDTV clocks
- Laser engine pixel / set-top clocks
- Spread spectrum low EMI clocks
- OC-3, OC-12, OC-48 and OC-192 clocks
- Fast Ethernet and Gigabit Ethernet clocks
- NTSC / PAL encoder/decoder clocks
- PLL / synthesizer clocks
- Fibre channel and ADSL clocks
- SONET / SDH / ATM clocks

Input Voltage (V <sub>DD</sub> )	V <sub>DD</sub> = +3.3 V D.C. ±10%
Mercury Model	3SWO
Frequency Range	1.0 ~ 125.0 Mhz
Output Logic	TTL / HCMOS
Duty Cycle	50%±10%. (50±5% is also available)
Start-up Time (Ts)	1.0 ~ 32 MHz: 5 m sec. max. 32+ ~ 125 MHz: 10 m sec. Max.
Aging	±5 ppm per year max.

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Tol. ±ppm	Operating Volt.	Input Current	Rise Fall time	Package
48316	3SWO-BT-1.8432MHz	MEC	SWO Series Clock Oscillators	1.8432MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48304	3SWO-BT-10.000MHz	MEC	SWO Series Clock Oscillators	10.000MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48318	3SWO-BT-12.000MHz	MEC	SWO Series Clock Oscillators	12.000MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48305	3SWO-BT-12.288MHz	MEC	SWO Series Clock Oscillators	12.288MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48306	3SWO-BT-14.31818MHz	MEC	SWO Series Clock Oscillators	14.31818MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48319	3SWO-BT-14.7456MHz	MEC	SWO Series Clock Oscillators	14.7456MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48320	3SWO-BT-16.000MHz	MEC	SWO Series Clock Oscillators	16.000MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48321	3SWO-BT-16.384MHz	MEC	SWO Series Clock Oscillators	16.384MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48322	3SWO-BT-18.432MHz	MEC	SWO Series Clock Oscillators	18.432MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48307	3SWO-BT-20.000MHz	MEC	SWO Series Clock Oscillators	20.000MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm
48308	3SWO-BT-24.000MHz	MEC	SWO Series Clock Oscillators	24.000MHz	+/-50ppm	3.3V	15mA max.	7n sec. max.	5*7*1.4mm



T E L : Taiwan: 886-3-5753170  
F A X : Taiwan: 886-3-5753172  
E-mail: Taiwan: [us\\_sale@100y.com.tw](mailto:us_sale@100y.com.tw)

Shenzhen: 86-755-83298787  
Shenzhen: 86-755-83640655  
Shenzhen: [100y@163.com](mailto:100y@163.com)

Shanghai: 86-21-54151736  
Shanghai: 86-21-64605107  
Shanghai: [100y-1@163.com](mailto:100y-1@163.com)