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CLOCK OSCILLATORS "H" series	Logic: TTL / HCMOS Wave Form: Square wave	MERCURY Since 1973

Besides low cost general purpose crystal clock oscillators Mercury also offers high quality and field-proven application-specific oscillators for applications such as

- ♦ 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

Mercury has the right oscillators to meet your specifications and your applications.

Product Summary

Package Code	Frequency Range	Assembly Technique	Package Size (mm) [inches], seat height
Thru-Hole Types			
H14	20 KHz ~ 160 MHz	4 pin DIL full size	12.8 x 20.2 x 5.88 [0.504 x 0.795 x 0.231]
H8	20 KHz ~ 160 MHz	4 pin DIL half size	12.8 x 12.8 x 5.88 [0.504 x 0.504 x 0.231]
Surface Mount Types – Gull Wing			
H24	20 KHz ~ 160 MHz	Gull wing version of H14	12.8 x 20.2 x 7.60 [0.504 x 0.795 x 0.300]
H18	20 KHz ~ 160 MHz	Gull wing version of H8	12.8 x 12.8 x 7.60 [0.504 x 0.504 x 0.300]
Surface Mount Types – Leadless			
H41	1.25 MHz ~160 MHz	4 pad Leadless	9.6 x 11.4 x 1.85 [0.378 x 0.449 x 0.073]
H42	20 kHz ~160 MHz	4 pad Leadless	9.6 x 11.4 x 2.5 [0.378 x 0.449 x 0.098]
H44	20 kHz ~160 MHz	4 pad Leadless	9.6 x 11.4 x 4.7 [0.378 x 0.449 x 0.185]
H575	20 MHz ~160 MHz	4 pad Leadless	5.0 x 7.5 x 2.8 [0.197 x 0.295 x 0.110]

For Hz or kHz range clock oscillators with uA (micro amps) current consumption, for example 32.768 kHz with 14 uA current, please refer to the LPO series.

MERCURY www.mercury-crystal.com
Taiwan: TEL (886)-2-2695-7099, FAX (886)-2-2695-7473, e-mail: sales-tw@mercury-crystal.com
U.S.A.: TEL (1)-909-466-0427, FAX (1)-909-466-0762, e-mail: sales-us@mercury-crystal.com

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"H" Series General Specifications

T_A = +25°C, V_{DD} at specified voltage, CL = 15 pF

Input Voltage (V_{DD})		V_{DD} = +3.3 V D.C. ±5%	V_{DD} = +5.0 V D.C. ±5%
Frequency Range (package dependent)		20 kHz ~ 125 MHz	20 kHz ~ 160 MHz
Output Logic		TTL / HCMOS	TTL / HCMOS
Output Voltage HIGH "1"	**TTL**	2.4 V min.	2.4 V min.
	CMOS	2.97 min.	Vcc – 0.5 min.
Output Voltage LOW "0"	**TTL**	0.4 V max.	0.4 V max.
	CMOS	0.33 max.	0.5 V max.
Operating Temperature Range		Commercial (Temperature code is " **C** "): 0°C to +70°C Industrial (Temperature code is " **I** "): -40°C to +85°C	
Frequency Stability(1)	**Commercial (0°C to +70°C) Temperature code is 'C"**	±25 ppm over 0°C to +70°C (Stability code is "**A**") ±50 ppm over 0°C to +70°C (Stability code is "**B**") ±100 ppm over 0°C to +70°C (Stability code is "**C**") If non-standard please enter the desired stability after the "**C**". For example "C20" represents ±20 ppm over 0 to +70°C	
	Industrial (-40°C to +85°C) Temperature code is 'I"	±25 ppm over -40°C to +85°C (Stability code is "**D**") ±50 ppm over -40°C to +85°C (Stability code is "**E**") ±100 ppm over -40°C to +85°C (Stability code is "**F**") If non-standard please enter the desired stability after the "**I**". For example "**I**20" represents ±20 ppm over -40 to +85°C	
Output Load	**TTL**	2 ~ 10 TTL gates	
	CMOS	15 or 50 pF	
Rise Time (Tr) and Fall Time (Tf)	**TTL**	10 n Sec. max; 3 n Sec. typical. Measured between 0.4V to 2.4V (RL = 390 Ω; CL = 15 pF)	
	CMOS	10 n Sec. max; 3 n Sec. typical. Measured between 10% to 90%V_{DD} (CL = 15 pF)	
Duty Cycle	**TTL**	40% min. 60 % max. (measured at +1.4 V)	
	CMOS	40% min. 60 % max. (measured at 50% V_{DD})	
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" (≤0.8V) 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.	

(1) Inclusive of 25°C tolerance, operating temperature range, ±10% input voltage variation, load change, aging, shock and vibration.

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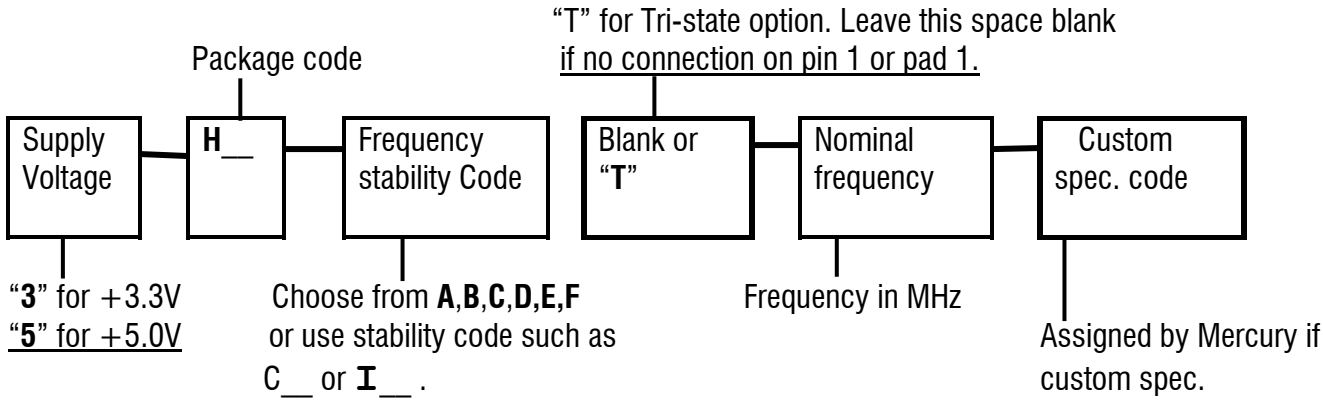
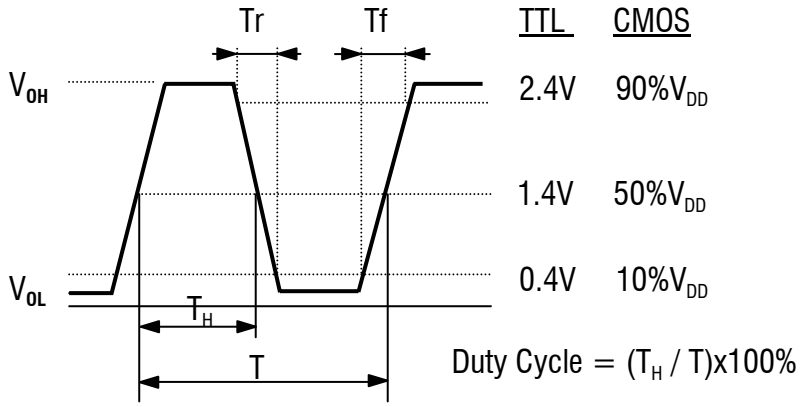
Part Number Format and Examples:



3H8-BT-72.000 represents +3.3V input voltage, half size 4 pin DIP package, ±50 ppm over 0 to +70°C frequency stability, Tri-state function on pin 1, 72.000 MHz

5H44-A-1.544-2315 represents +5.0V input voltage, H44 package, ±25 ppm over 0 to +70°C frequency stability, 1.544 MHz. Non-standard and custom spec. No. is 2315.

OUTPUT WAVEFORM:



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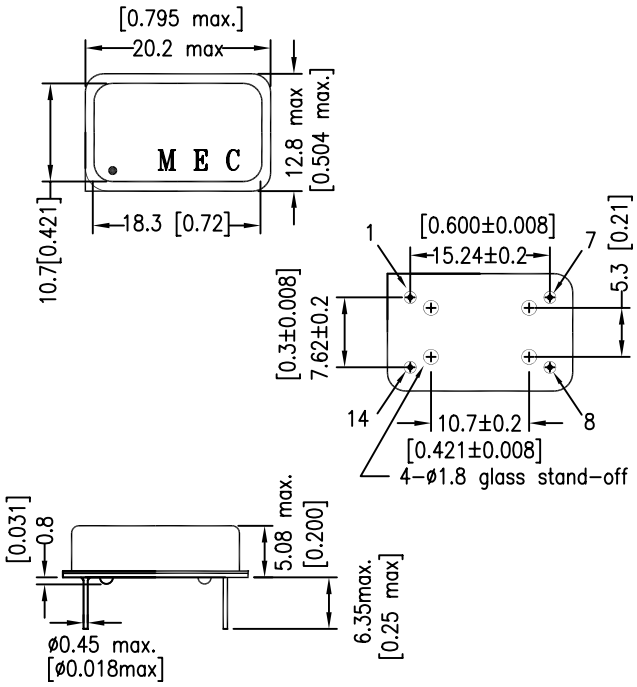
Package: H14

Unit: mm [inches]

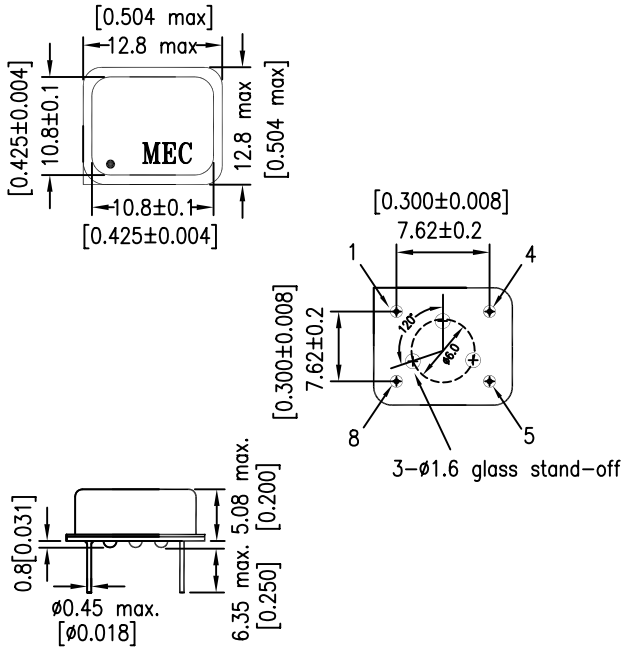


Pin Connections

Squared corner is pin No. 1

Pin 1: No Connection or Output Disabled when Low
Pin 7: Ground
Pin 8: Output
Pin 14: Supply Voltage

Package: H8



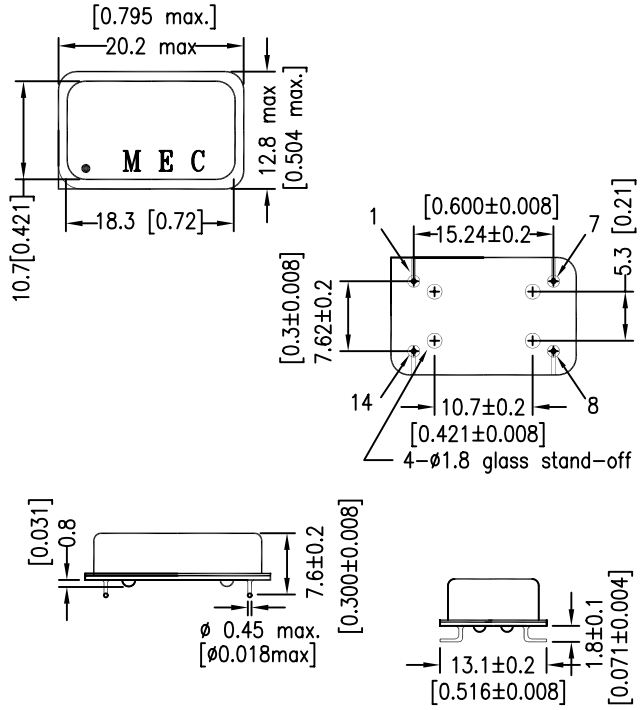
Pin Connections

Squared corner is pin No. 1

Pin 1: No Connection or Output Disabled when Low
Pin 4: Ground
Pin 5: Output
Pin 8: Supply Voltage

C L O C K
TTL/CMOS

Package: H24

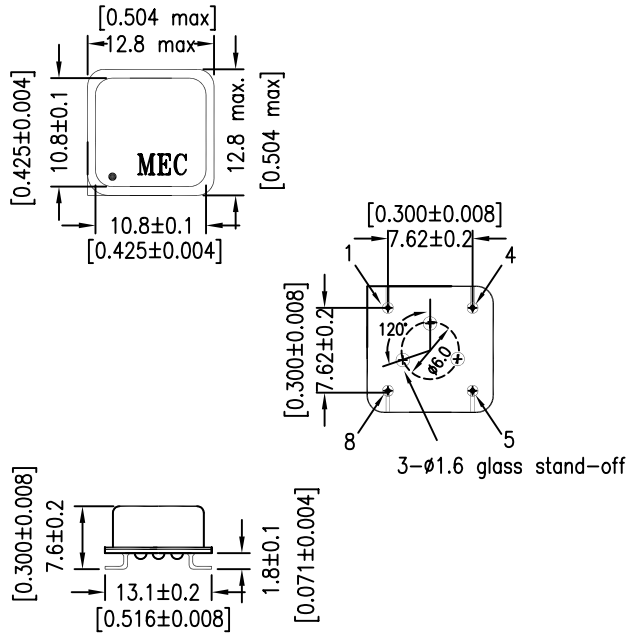


Pin Connections

Squared Corner is pin No. 1

Pin 1: No Connection or Output Disabled when Low
Pin 7: Ground
Pin 8: Output
Pin 14: Supply Voltage

Package: H18



Pin Connections

Squared corner is pin No. 1

Pin 1: No Connection or Output Disabled when Low
Pin 4: Ground
Pin 5: Output
Pin 8: Supply Voltage

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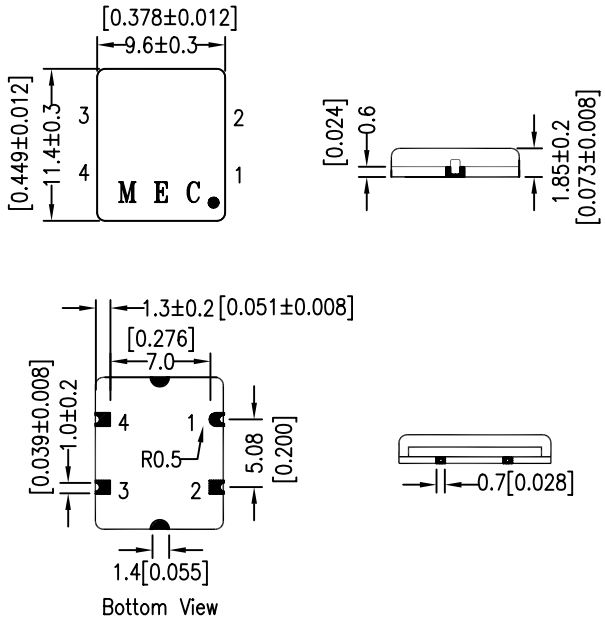
Package: H41

"41" represents 4 pads and 1.85 mm overall height



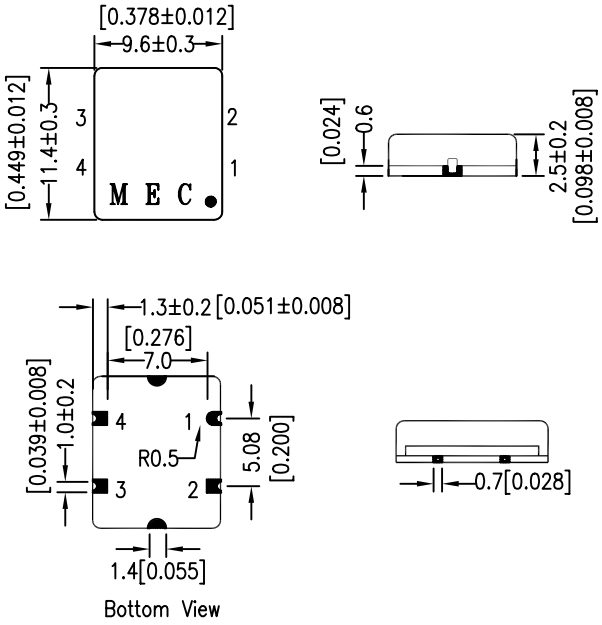
Pad Connections: Rounded pad is pad 1

Pad 1: No Connection or option
Pad 2: Ground
Pad 3: Output
Pad 4: Supply Voltage

Package: H42

Unit: mm [inches]

"42" represents 4 pads and 2.5 mm overall height



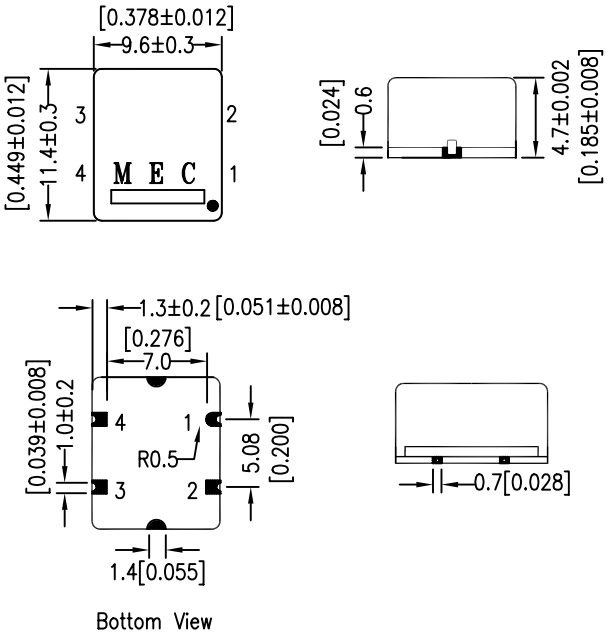
Pad Connections: Rounded pad is pad 1

Pad 1: No Connection or option
Pad 2: Ground
Pad 3: Output
Pad 4: Supply Voltage

C L O C K
TTL/CMOS

Package: H44

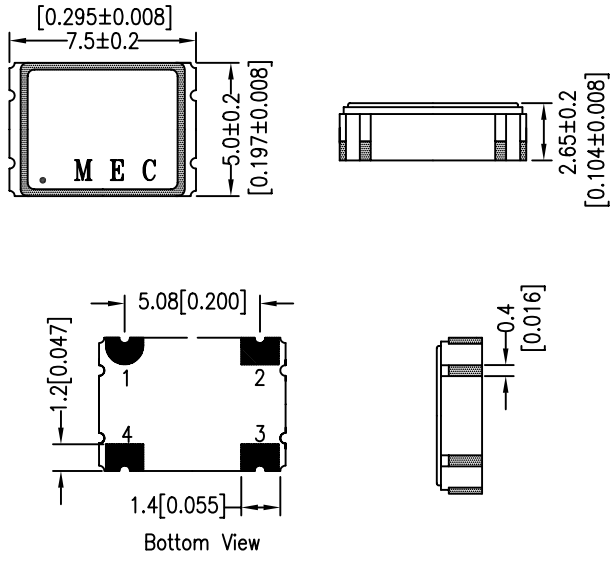
"44" represents 4 pads and 4.7 mm overall height



Pad Connections: Rounded pad is pad 1

Pad 1: No connection or option
Pad 2: Ground
Pad 3: Output
Pad 4: Supply Voltage

Package: H575



Pad Connections: Rounded pad is pad 1

Pad 1: Tri-state or No connection
Pad 2: Ground
Pad 3: Output
Pad 4: Supply voltage

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