

Clock Oscillators (HCMOS / Square Wave ; Ceramic SMD ; Under 125 MHz)

" SWO " series ; " H53 " series and " H32 " series



Applications :

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



RoHS Compliance



General Specifications

$T_A = +25^{\circ}\text{C}$, $V_{DD} =$ at specified voltage , Load : 15 pF

Model	" SWO " ; " H53 " and " H32 " series						
	Overall Frequency Range	Supply Voltage Choices		Output Logic		Package Dimensions	
" SWO " series	0.3125 ~ 125 MHz	1.8 V; 2.5 V; 3.3 V or 5.0 V		CMOS		5.0 x 7.0 x 1.4 mm	
" H53 " series	1.0 ~ 125 MHz	1.8 V; 2.5 V; 3.3 V or 5.0 V		CMOS		3.2 x 5.0 x 1.2 mm	
" H32 " series	1.0 ~ 54 MHz	1.8 V; 2.5 V; 3.3 V or 5.0 V		CMOS		2.5 x 3.2 x 1.0 mm	
Supply Voltage (V _{DD})	V _{DD} = +1.8V D.C.±5% Voltage code is " 18 "	V _{DD} = +2.5V D.C.±5% Voltage code is " 25 "		V _{DD} = +3.3 V D.C.±5% Voltage code is " 3 "		V _{DD} = +5.0V D.C.±10% Voltage code is " 5 "	
Available Frequency Range by V _{DD}	1.0 ~ 160.0MHz	0.3 ~ 160.0 MHz		0.3 ~ 160.0 MHz		0.5 ~ 125.0 MHz	
Output Logic High "1" (90% of V _{DD} min.)	1.62 V min.	2.25 V min.		2.97 V min.		4.5 V min.	
Output Logic Low "0" (10% of V _{DD} max.)	0.18 V max.	0.25 V max.		0.33 V max.		0.5 V max.	
Current Consumption	1.0 ~ 1.5MHz : 5 mA max.	0.3 ~ 1.5MHz : 5 mA max.		0.3 ~ 1.5MHz : 5 mA max.		0.3 ~ 1.5MHz : 5 mA max.	
	1.5 ~ 20MHz : 8 mA max.	1.5 ~ 20MHz : 8 mA max.		1.5 ~ 20MHz : 8 mA max.		1.5 ~ 20MHz : 10 mA max.	
	20 ~ 50MHz : 15 mA max.	20 ~ 50MHz : 15 mA max.		20 ~ 50MHz : 15 mA max.		20 ~ 50MHz : 25 mA max.	
	50 ~ 60MHz : 22 mA max.	50 ~ 125MHz : 25 mA max.		50 ~ 125MHz : 35 mA max.		50 ~ 125MHz : 40 mA max.	
Frequency Stability ⁽¹⁾ Codes	Frequency Stability over Operating Temperature Range	± 25 ppm		± 50 ppm		± 100 ppm	If non-standard , please enter the desired stability after the " C " or " I " represents (e.g. "C20" ±20 ppm over 0°C to +70°C ; " I20 " represents ± 20 ppm over -40°C to +85°C)
	Commercial (-10°C to +70°C)	A		B		C	
	Industrial (-40°C to +85°C)	D		E		F	
Load	15 pF max. ; (30 pF and 50 pF load are also available for +3.3V and +5.0V V _{DD})						
Duty Cycle (at 50% of wave form)	Standard: 50% ± 10%; Option: 50% ± 5%. Please add "-S" at the end of the part number for ± 5% .						
Start -up Time (Ts)	1.0 ~ 32.0 MHz : 5 m sec. (max.) ; 32.0 ~ 125.0 MHz : 10 m sec. (max.)						
Rise Time (Tr) / Fall Time (Tf)	5 n sec. (max.)	7 n sec. (max.)		10 n sec. (max.)		10 n sec. (max.)	
	Measured between 10% ↔ 90% of wave form (CL = 15pF)						
Storage Temperature	- 50°C to 100°C						
Aging	± 5 ppm per year (max.)						
Tri-state Function on pad No. 1 [For SWO , H53 , H32 is standard series]	Note: Pad No. 1 is Tri-State by default for all SWO series. That is: The output (pad No. 3) is active if no connection or voltage of 2.2V The output (pad No. 3) is high impedance when voltage of 0.8V or Disable time is 150 n sec. max.; Enable time is 10 m sec. max.						

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

Mercury www.mercury-crystal.com

■Taiwan : Tel (886)-2-2406-2779 / sales-tw@mercury-crystal.com ■U.S.A: Tel: (1)-909-466-0427 / sales-us@mercury-crystal.com ■China: Tel: (86)-512-5763-8100 / sales-cn@mecxtal.com

Для заказа отправьте заявку на почту: mail@kvarci.ru