

HP

LVPECL Differential

F group
0.5 ps

W group
4.0 ps

Thru-Hole

SMD

2.5V

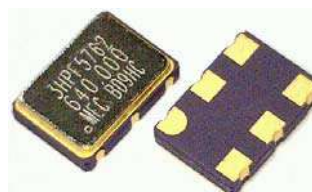
3.3V

Min.
750KHz

Max.
800MHz

Applications

- HPF and HPW uses a high-Q fundamental crystal and a low jitter multiplier circuit.
- HPF offers a <1 ps phase jitter. "HPW" offers moderate jitter at a low cost.



General specifications , at Ta=+25°C , CL=15pF

Model		" HPF " series			" HPW " series			
Technology		High Q fundamental crystal + low jitter multiplier circuit			High Q fundamental crystal + multiplier circuit			
Output Logic		LVPECL Differential						
Available Frequency Range		38.0 MHz ~ 640.0 MHz			750 KHz ~ 800.0 MHz			
Supply Voltage V _{DD}		+2.5 V _{DD} ± 5%	+3.3 VDD ± 5%		+3.3 VDD ± 5%			
Supply Voltage Code		" 25 "	" 3 "		" 3 "			
Output Logic " High " , " 1 "		V _{DD} -1.025 min. Termination: R _L =50 Ω to (V _{DD} -2.0V). See test circuit below.						
Output Logic " Low " , " 0 "		V _{DD} -1.620 max. Termination: R _L =50 Ω to (V _{DD} -2.0V). See test circuit below.						
Integrated Phase Jitter (12 KHz to 20 MHz)		0.4 ps typical; 0.5 ps max. For 156.250 MHz			2.6 ps typical; 4 ps max. For 155.520 MHz			
Period Jitter RMS ; Decoupling capacitor between V _{DD} and ground		3 ps typical ; 5 ps max. For 156.250 MHz			4.3 ps typical. For 155.520 MHz			
Period Jitter (peak-to-peak ; Decoupling capacitor between V _{DD} and ground)		20 ps typical ; 30 ps max. For 156.250 MHz			27 ps typical. For 155.520 MHz			
Current Consumption (15 pF load)		38 MHz ~ 100 MHz: 65 mA max 100.01 MHz ~ 320 MHz: 80 mA max. 320.01 MHz ~ 640 MHz: 90 mA max..			< 24 MHz: 25 mA max 24.01 MHz ~ 96 MHz: 65 mA max. 96.01 MHz~700 MHz: 100 mA max..			
Rise Time / Fall Time		0.4 ns typical , 0.55 ns max. (20%↔80% of the PECL wave form)			0.6 ns typical , 1.5 ns max. (20%↔80% of the PECL wave form)			
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 . For example : " C20 " ± 20 ppm over -10°C to +70°C ; " I20 " ± 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		R _L =50 Ω to (V _{DD} -2.0V). See test circuit below.						
Start-up Time		10 m sec. (max.)						
Duty Cycle		50% ± 5% (measured at V _{DD} -1.3V)						
Input Static Discharge Protection		2 KV (min.)						
Storage Temperature		-55°C to + 150°C						
Aging at Ta = +25°C		± 3 ppm max. first year ; ± 2 ppm max. per year thereafter						
Tri - State Function. <u>5761 on pad No. 1</u> <u>5762 on pad No. 2</u>	No Connection	Differential PECL and complimentary PECL outputs .						
	Disable	Both outputs are disabled (high impedance) when the Tri-state pad taken below 0.45*Vcc referenced to ground (threshold) Oscillator is always On . Only buffer stage is disabled . Disable current : 50 uA max. (at 0.0V) , Disable time : 10 ns (max.)						
	Enable	At disabled mode , both outputs are enabled when Tri-state pad is taken above 0.45*Vcc referenced to ground (threshold) ; Enable time : 10ns + one period of the output frequency (max.)						
SSB Phase Noise [dBc / Hz (typical)]		Offset	Frequency: 156.250 MHz			Frequency: 155.520 MHz		
		10 Hz	-62			-62		
		100 Hz	-92			-95		
		1 KHz	-120			-120		
		10 KHz	-132			-125		
		100 KHz	-128			-121		
		1 MHz	-140			-120		
		10 MHz	-150			-140		

⁽¹⁾ Inclusive of 25°C tolerance, operating temperature range, ±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