



ICs

Clocks & Timers

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High-performance Clock Generators ICs

A
Clocks & Timers

Clock Generators for Digital Cameras

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Video Clock (The output which can be selected) (MHz)	CCD Clock (The output which can be selected) (MHz)	USB Clock (MHz)	Jitter 1 σ Typ. (ps)	Package
BU2394KN	3.0 to 3.6	14.318182 (28.636363)	14.318182 17.734450	135.000000 108.000000 98.181818 110.000000	48.008022	30	VQFN20
BU2396KN	3.0 to 3.6	12.000000	27.000000	24.000000 30.000000 36.000000	12.000000	50	VQFN20

DVD-Audio Reference Clock Generator for A/V Equipments

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency(MHz)								Jitter 1 σ Typ. (ps)	C/N Typ. (ps)	Package	
			DVD-video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock				
			Video1	Video2	Video3	768fs	512fs	384fs	256fs	768fs				384fs
BU2363FV	3.0 to 3.6	36.864	54.0000	27.0000	—	36.8640 33.8688	—	18.4320 16.9344	—	33.8688	16.9344	50	-75 (Video)	SSOP-B16

DVD-Video Reference Clock Generators for A/V Equipments

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency(MHz)										Jitter 1 σ Typ. (ps)	Long-term Jitter P-P Typ. (ns)	Package
			DVD-video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock					
			Video1	Video2	Video3	768fs	512fs	384fs	Other	768fs	384fs	Other			
BU2280FV	3.0 to 3.6	27.0000	27.0000	—	—	36.8640 33.8688	24.5760 22.5792	18.4320 16.9344	—	33.8688	—	—	70	8 (Audio)	SSOP-B24
BU2360FV	2.7 to 3.6	27.0000	27.0000	—	—	—	24.5760 22.5792	—	—	33.8688	—	—	70	2.5 (Audio)	SSOP-B16
BU2362FV	2.7 to 3.6	27.0000	27.0000	—	—	—	24.5760 22.5792	—	36.8640 16.9344	33.8688	16.9344	36.864	70	12 (Audio)	SSOP-B16

Clock Generator with Built-in VCXO for A/V Equipments

Part No.	Supply Voltage (V)	VCXO (Reference Clock)	Clock Buffer	PLL Output Frequency(MHz)								Jitter 1 σ Typ. (ps)	C/N Typ. (dB)	Package		
				DVD-video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock					
				Video1	Video2	Video3	768fs				768fs				512fs	384fs
BU3087FV	3.135 to 3.465	Tuning range 27MHz \pm 105ppm Typ.	—	27.000000	—	74.250000 Modulation \pm 0.25% \pm 0.50% \pm 0.75% \pm 1.00%	—	—	—	—	—	—	—	30	HD -Video -70	SSOP-B16

Clock Generators for Digital Cameras : Three types of clocks generated-CCD, USB, and a Video
 DVD-Audio Reference Clock Generators : DVD/CD-audio, DVD-video clock generation using the DVD-video reference clock
 DVD-Video Reference Clock Generators for A/V Equipments : DVD/CD-audio, DVD-video clock generation using the DVD-video reference clock
 Clock Generator with Built-in VCXO for A/V Equipments : VCXO is Built-in with high-precision external synchronization

Real Time Clocks ICs

Real Time Clocks with High-precision Oscillation Adjustment

Part No.	I/F	Supply Voltage (V)	Time Keeping Voltage (V)	Time Keeping Current (Typ.)(μ A)	Time Keeping Current (Max.)(μ A)	Operating Frequency 1 (Max.)(kHz)	Operating Frequency 2 (Max.)(kHz)	Package
BU9873F	I ² C	1.8 to 5.5	1.45 to 5.5	0.4 (V _{DD} =3V, Ta=25°C)	1.0 (V _{DD} =3V, Ta=-40°C to +85°C)	100 (V _{DD} =1.8V to 2.5V)	400 (V _{DD} =2.5V to 5.5V)	SOP8
BU9873FJ								SOP-J8
BU9873FVT								TSSOP-B8
BU9873FVM								MSOP8
BU9873NUX								VSON008X2030