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ICs

# Clocks & Timers

## High-performance Clock

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CR Control Timer IC ..... 20

## Clocks & Timers

High-performance Clock Generator ICs

P.20

CR Control Timer IC

P.20

## High-performance Clock Generator ICs

### 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 $\sigma$ 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-Video Reference Clock Generators for A/V Equipments

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency (MHz)										Jitter 1 $\sigma$ 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			
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 $\sigma$ 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-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

## CR Control Timer IC

### CR Control Timer IC

Part No.	Supply Voltage (V)	PWM Frequency (Hz)	Duty (%)	Circuit Current (mA)	Function	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9555FVM-C	4.5 to 42.0	1 to 10k	1 to 99	1	PWM/Duty 100% Switching terminal	-40 to +125	MSOP8	FSs	YES

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 \*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.