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Clocks & Timers

High-performance Clock

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CR Control Timer IC 21

Clocks & Timers

High-performance Clock Generator ICs  P.21 CR Control Timer IC  P.21

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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 1σ 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 1σ 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 1σ 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				Other
BU3087FV	3.135 to 3.465	Tuning range 27MHz±105ppm Typ	—	27.000000	—	74.250000 Modulation/ ±0.25%, ±0.50%, ±0.75%, ±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.