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Clocks & Timers

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CR Control Timer IC 21

| Clocks & Timers | | | |
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High-performance Clock Generators 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-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

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 of the cover.