

In-Car Device System Solution



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Input/Output (Including UI, Sensors)

For touch sensor

■ Leadless surface-mount infrared emitting diode

- Surface-mount reflow compatible
- Both vertical and horizontal mounting are possible



■ Leadless surface-mount phototransistor

- Surface-mount reflow compatible
- Both vertical and horizontal mounting are possible



For no-touch switch

■ Distance measuring sensor unit

- Compact, power-source drive compatible
- Distance-measuring type (detecting distance: 10 cm)



For DVD/CD signal reading

■ DVD pickup for automotive use



For DVD-ROM signal reading

■ Hologram laser diode



For CD-ROM signal reading

■ Hologram laser diode



For digital terrestrial broadcast reception

■ Diversity-reception-compatible tuner module

■ One-seg tuner module



For wireless operation of devices

■ IR detecting unit for remote control

- Operating voltage: 2.7 to 5.5 V



■ Compact, thin, surface-mount IR detecting unit for remote control

- Operating voltage: 2.7 to 5.5 V
- Compact, surface-mount reflow compatible

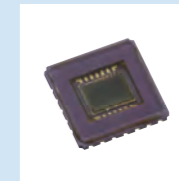


For color CCD camera system with 3-chip configuration

■ 1/3.8-type 290-kpixel CCD

■ CCD peripheral LSI (V driver + CDS/PGA/ADC + DSP)

- For camera system kit with built-in electronic optical axis adjustment function

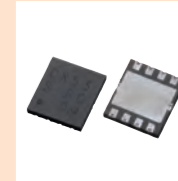


Power Supply

For circuit voltage stabilization

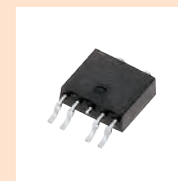
■ CMOS chopper regulator (Bootstrap system)

- High efficiency
- Chip employing CMOS process



■ Compact chopper regulator

- PWM chopper regulator
- Oscillation frequency: TYP. 300 kHz



Mechanical Structure

For part mounting and circuit connection

- Advanced Flex (ADF) printed circuit board «customizable»



Display

For LCD backlight

■ White LED driver

- A lineup of LED drivers necessary for backlights in LCDs ranging from small- to large-size



For image display

■ TFT LCD module

- A lineup of sizes to fit various applications, including navigation screens, instrument panels, and rear seat monitors