

Copier/Printer System Solution

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Input/Output (Including UI, Sensors)

For energy-saving equipment via human body detection

- **Distance measuring sensor unit**
 - Effect from reflective matter's color and reflectivity is small
 - Distance-measuring output type (digital output)



For insulation of and transfer between high- and low-voltage sides of power supply

- **Photocoupler compliant with safety standards**

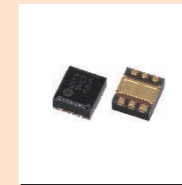
Safety standard approved / compliant



Display

For backlight

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



For LCD backlight

- **High-luminosity white surface-mount LED**
 - Thin, high luminosity
 - High rendering color products are also available



For image display

- **Transmissive-type TFT LCD module**
 - These LCD modules are only made to order.

For wireless LAN

- **Wireless LAN / Bluetooth combo module**
- **2.4 GHz band power amplifier**
- **2.4 GHz / 5 GHz band power amplifier**



For transfer drum photo-sensitivity

- **Laser diode**



Mechanical Structure

For detection of remaining paper amount

- **Distance measuring sensor unit**
 - Effect from reflective matter's color and reflectivity is small
 - Distance-measuring output type (digital output)



Fixing heater unit paper jam detection

- **Distance measuring sensor unit compatible with high-temperature operations**
 - Wide operating temperature range: -30°C to +105°C
 - Detecting distance: 1.5 cm



For paper detection

- **Photointerrupter with connector**
 - Light modulation system significantly cuts external light
 - Low dissipation current: 20 mA



Mirror/lens position control, transfer drum rotation control

- **Photointerrupter with encoder function**
 - Resolution: 150 LPI
 - Wide gap



For high-precision printing, through detection of the origin point for the laser used for image-writing to the drum

- **OPIC light detector for laser beam original point detection**



For placement control of printing drum used to detect number of sheets of paper passing through

- **High-precision displacement sensor**
 - Resolution: 50 μm
 - Dissipation current: TYP. 20 mA



Color toner concentration deposition amount control for transfer drum

- **Color toner concentration (deposition amount) sensor**
 - Highly precise detection of toner on transfer belt
 - 2-channel analog output



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