

Modules for Illumination and Display



DP High Brightness LED Numeric Displays
LAP / LBP series

• About 10 times brighter than conventionals.
 • Contribution to energy saving by drastic current consumption reduction.

DP LED Lighting Modules
NEW LTG series

• Great illuminance and less heating using standard LEDs.
 • Unique reflectors achieve uniform chromaticity.

DP 64mm LED Dot Matrix Units
NEW LUM-115BBMU8B0, LUM-115BMU300

• Fine 2.67mm dot pitch
 • Over 50% current consumption cut, compared the conventional type.
 • Thinner (-40%) than the conventional type.

PR High power LED Drivers for Illumination
BP58 series

• Constant current 250 to 350mA
 • Contribution to energy saving by drastic current consumption reduction.

Chip LEDs for Illumination

LED Tri-color Chip LEDs
Under development High-brightness Tri-color Chip LED
(5.0 × 5.0mm, t=1.0mm)
SML032RGB1T (3.5 × 3.0mm, t=1.3mm)

< PICOLED™-RGB >
SMLP34 / P36 / N34
(1.0 × 1.0mm, t=0.2mm)
(1.5 × 1.0mm, t=0.2mm)
(2.7 × 0.95mm, t=0.5mm)

• Suited to display vivid colors

LED Chip LEDs with reflectors
SML-012 / 013 series
(3.0 × 2.0mm, t=1.3mm)

• Light is concentrated by reflector, and luminous intensity gets 1.5 times greater.
 • Shade of color can be customized to match imaged color, by customer.

LED High-brightness / High-heat radiation : White LED
SMLK15WBF(PSML2 package)
(4.0 × 2.0mm, t=0.6mm)

• World's top-class brightness class* is realized
*At middle current area (50 to 150mA)

Optoelectronics for Detection



S Optical Sensors
< Photointerrupter > RPI series
< Photoreflexor > RPR series

• For various detection applications

RM Remote Control Receiver Modules
RPM series

• Wide lineup from leaded type to surface mount type.

Modules for printer



CRS Contact Image Sensor Heads
IA2004-CE40A / CE50A IA2004-ME32A
IA3004-ME10A

• Not only for scanning but also for detecting paper position and paper width.

R Thermal Printheads
KD200 -GF / CG series
KD200 -DC series

Discretes and Passives for Power Supply and Driver

R Chip Resistors
< Ultra-low Ohmic Chip Resistors for Current Detection >
PMR03 / 10 / 18 / 25 / 50 / 100 series
(1608 [0603] to 6432 [2512] size)
• Employing the special alloy metal realizes the stable thermal characteristics.

< Fixed Thick Film Low Ohmic Chip Resistors >
UCR10 / 18 series (2012 [0805] / 3216 [1206] size)
• High power 0.33W / 0.5W guaranteed.

< High Voltage Resistance Chip Resistors >
KTR03 / 10 / 18 / 25 series (1608 [0603] to 3225 [1210] size)
• Limiting element voltage is boosted more than double.

< Anti-surge Chip Resistors >
ESR03 / 10 / 18 / 25 series (1608 [0603] to 3225 [1210] size)
• Rated wattage enhanced drastically compared with conventional products.
• 3kV anti-surge protection guaranteed.

< Chip Trimmer Potentiometers >
MVR21 series
• Ultra thin structure = 0.75mm

TC Chip Tantalum Capacitors
< Conductive polymer type >
TCO / TCTO series

• AL case (3216-12[1206] low profile size) 100 μF Max. • A case (3216-10 [1206] size) 47 μF Max.
 • P case (2012-12 [0805] size) 10 μF Max. • B case (3528-21 [1411] size) 150 μF Max.
 • Employing conductive polymer for cathode results in low ESR.
 Frame is retardant is enhanced.

Tr Low Voltage 1.5V drive MOSFETs
< ECOMOS™ series >
RUQ050N02 (20V / 5A / TSMT6)
RZQ050P01 (-12V / -5A / TSMT6)

• 1.5V drive voltage achieved by the new low voltage front-end process.
 • Industry's top low R_{DS(on)}
 • Contribution to energy saving drastic current consumption reduction.

EM Three-terminal EMI Filters
MCF18 series (1608 [0603] size)

• Small 1608[0603] size with 4A rated current.
 • Very low internal resistance 10mΩ to 20mΩ.

Tr High Voltage Resistance MOSFETs
R5007ANX (500V / 7A / TO-220FM)
R5016ANX (500V / 16A / TO-220FM)
R6008ANX (600V / 8A / TO-220FM)
R6010ANX (600V / 10A / TO-220FM)

• By employing the newly developed low R_{DS(on)} process, switching speed is enhanced drastically.
 (About 30% speed up)

Di Fast Recovery Diodes
RF1001T2D (200V / 10A / TO-220FN)
RF2001T2D (200V / 20A / TO-220FN)

• ROHM's unique technology realized the industry's fastest class switching speed and low V_F.