

RGBIR Color Sensor in Compact 2.67 mm x 2.45 mm x 0.6 mm SMD Package

AEC-Q100 Qualified Device Features a Highly Sensitive Photodiode, Low Noise Amplifier, and 16-bit ADC



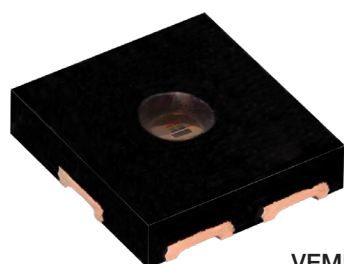
ADVANTAGE



VEML6046X00 device allows for the calculation of color temperature, light source differentiation, and placement behind dark cover glass

KEY PRODUCT FEATURES

- ✓ Ambient light range from 0 lx to 176 klx
- ✓ Supply voltage range V_{DD} : 2.5 V to 3.6 V
- ✓ High sensitivity of 0.0053 lx/ct
- ✓ Separate red, green, blue, and infrared (IR) channels
- ✓ Communication via I²C interface
- ✓ Features an interrupt function



VEML6046X00

MARKETS AND APPLICATIONS



MOBILITY

- Automotive intelligence
 - Display backlight controls
 - Infotainment systems
 - Rear view mirror dimming
 - Interior lighting control systems
 - Head-up displays
 - Color recognition
 - CCT measurement
 - Mood lighting

ADDITIONAL BENEFITS

- The spectral sensitivity of the green channel matches that of the human eye to ensure highly accurate measurements, while the IR channel facilitates a stable output over a wide range of light sources
- The device offers a high operating temperature range (-40 °C to +110 °C)
- The industry's first AEC-Q100 qualified RGBIR color sensor

RESOURCES

