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Nippon Electric Glass Co., Ltd.

Infrared Absorbing Filter with the World's Highest Visible Light Transmittance

Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan; President: Motoharu Matsumoto) has developed and started to accept orders of the infrared absorbing filters that provide the world's highest visible light transmittance^{*1} while absorbing the infrared ray with high efficiency. It will be exhibited in SEMICON China 2018 to be held from March 14, 2018 at Shanghai, China.

The infrared absorbing filter, achieving spectral sensitivity close to that of human eye, is usually placed in front of an image sensor and makes subjects in the images look natural to human eye. As a result, it is widely used in smartphones, digital cameras and surveillance cameras etc. However, in smartphones, due to the thinner filters with lower transmittance in the visible light range, it was difficult to produce satisfying image quality.

Our new infrared absorption filter features greatly improved transmittance in the visible light range while maintaining the infrared absorption efficiency, providing image sensors with better image quality. Among others, our new filters are innovative and deliver superior performance than the competing products in the huge market of general-purpose glass filters (standard thickness of 0.21 mm) for smartphone cameras.

We are also supplying thinner filter (thickness of 0.10 mm, about half thickness of the standard products) with similar infrared absorption property. In this thickness range, we also improved the transmittance of the visible light range. Compared to the competing resin filters for smartphone use, its visible light transmittance property has been improved dramatically, and will be expected to realize better image quality of smartphone cameras as well as slimmer and smaller mobile devices.

Through these products, we will capture the needs of better image quality of cameras, slimmer and smaller mobile devices, then expand the business of infrared absorbing filters.

*1: According to our internal investigation

Product Specifications

- Size for standard model: 77 mm (H) x 77 mm (W) x 0.21 mm/0.10 mm (T)
Other sizes are also available.
- Other features:
AR (anti-reflection) coating and IR (infrared reflection) coating are available.

(Products Image)

