



OPTICAL DEVICE

# OLPF

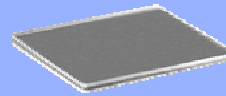
## 4 points separation / Film type

- For digital single lens reflex camera (DSLR)
- Good separation performance, lighter and thinner

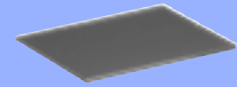
## Anti-Dust coat

- Reduce dust adhesion, improve dust removal

Product number (please contact us)  
X3Fxxxxxxxxx00



OLPF  
4 points separation/Film type



OLPF  
Anti-Dust coat

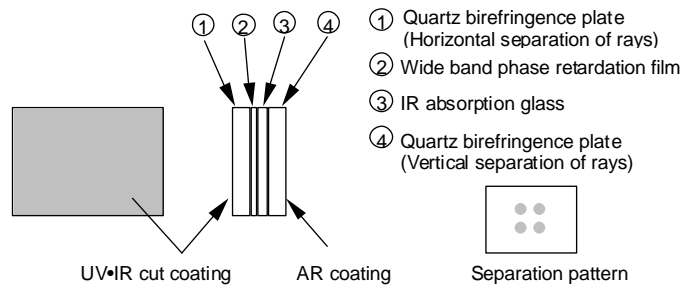
**NEW**

## 4 points separation / Film type OLPF

### Specifications

Material	Synthetic Quartz, IR glass, Wide band phase retardation film
Wavelength	400 nm ~ 1200 nm
Dimensions(Ex.)	22.0 <sup>±0.1</sup> × 28.0 <sup>±0.1</sup> (mm)
Accuracy against optical axis(Ex.)	Angle of optical axis (from cutting) ( ) 45° ± 1°
	Separation angle ( ) 0° ± 1°
UV·IR-cut coat characteristics	UV: 50 % Wavelength : 415 nm ± 10 nm IR: 50 % Wavelength : 680 nm ± 10 nm
Reflectance of AR coating	1.0 % Max. (Incident Angle 0°, =450 nm~650 nm)

### Structure

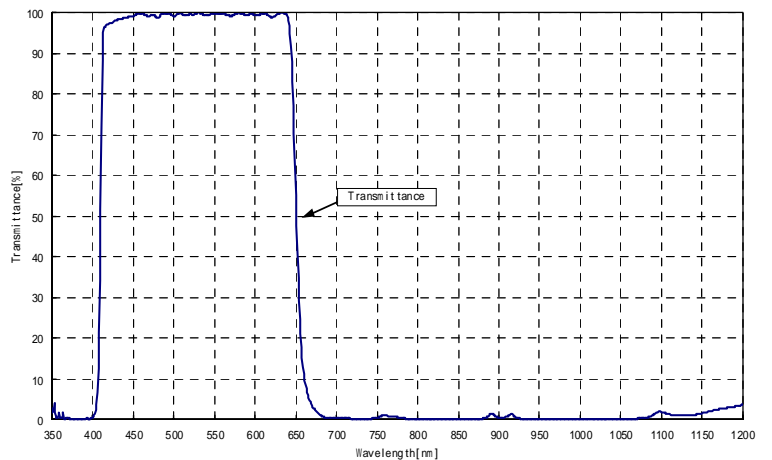


## Anti-Dust coat OLPF

### Specifications

Material	Synthetic Quartz ( Glass )
Wavelength	400 nm~ 1200 nm
Dimensions(Ex.)	22.0 <sup>±0.05</sup> × 28.0 <sup>±0.05</sup> (mm)
Accuracy against optical axis	Angle of optical axis (from cutting) ( ) 45° ± 1°
	Separation angle ( ) 0° ± 1°
UV·IR-cut coat characteristics	UV: 50 % Wavelength : 410 nm ± 10 nm IR: 50 % Wavelength : 650 nm ± 10 nm
Reflectance of AR coating	1.0 % max. (Incident Angle 0°, =450 nm~650 nm)
Anti-Dust coating side	AR coat side or UVIR coat side
Anti-Dust characteristics	Please inquire

### Spectral Characteristics



# “QMEMS” EPSON TOYOCOM

In order to meet customer needs in a rapidly advancing digital, broadband and ubiquitous society, we are committed to offering products that are one step ahead of the market and a rank above the rest in quality. To achieve our goals, we follow a “3D (three device) strategy” designed to drive both horizontal and vertical growth. We will to grow our three device categories of “Timing Devices”, “Sensing Devices” and “Optical Devices”, and expand vertical growth through a combination of products from these categories.

A Quartz MEMS is any high added value quartz device that exploits the characteristics of quartz crystal material but that is produced using MEMS (micro-electro-mechanical system) processing technology.

Market needs are advancing faster than previously imagined toward smaller, more stable crystal products, but we will stay ahead of the curve by rolling out products that exceed market speed and quality requirements. We want to further accelerate the 3D strategy by QMEMS.

Quartz devices have become crucial in the network environment where products are increasingly intended for broadband, ubiquitous applications and where various types of terminals can transfer information almost immediately via LAN and WAN on a global scale. Epson Toyocom Corporation addresses every single aspect within a network environment. The new corporation offers “Digital Convergence” solutions to problems arising with products for consumer use, such as, core network systems and automotive systems.



## PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Epson Toyocom, all environmental initiatives operate under the Plan-Do-Check-Action(PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification. In the future, new group companies will be expected to acquire the certification around the third year of operations.

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer and global deforestation

## WORKING FOR HIGH QUALITY

In order to provide high quality and reliable products and services than meet customer needs, Epson Toyocom made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

QS-9000 is an enhanced standard for quality assurance systems formulated by leading U.S. automobile manufacturers based on the international ISO 9000 series.

ISO/TS 16949 is a global standard based on QS-9000, a severe standard corresponding to the requirements from the automobile industry.

### ► Explanation of the mark that are using it for the catalog

	<ul style="list-style-type: none"> <li>► Pb free.</li> <li>► Complies with EU RoHS directive.</li> </ul>
	<ul style="list-style-type: none"> <li>► Pb free terminal designed. Contains Pb in products exempted by RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)</li> <li>► Complies with EU RoHS directive.</li> </ul>
	<ul style="list-style-type: none"> <li>► The products have been designed for high reliability applications such as Automotive.</li> </ul>

## Notice

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- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Epson Toyocom.
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- These products are intended for general use in electronic equipment. When using them in specific applications that require extremely high reliability, such as the applications stated below, you must obtain permission from Epson Toyocom in advance.
  - / Space equipment (artificial satellites, rockets, etc.) / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
  - / Medical instruments to sustain life / Submarine transmitters / Power stations and related / Fire work equipment and security equipment
  - / traffic control equipment / and others requiring equivalent reliability.
- In this new crystal master for Epson Toyocom, product codes and markings will remain as previously identified prior to the merger. Due to the on-going strategy of gradual unification of part numbers, please review product codes and markings, as they will change during the course of the coming months.

We apologize for the inconvenience, but we will eventually have a unified part numbering system for Epson Toyocom that will be user friendly.