

Wire Grid Polarizing Filter | WGPF

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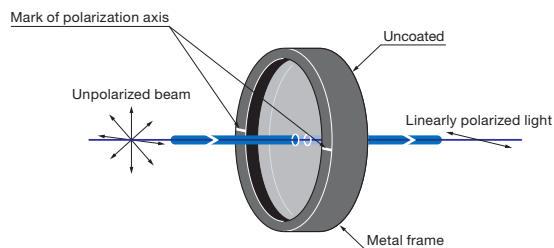
Polarizers

Since the filter is manufactured using a wire grid film processed with aluminum wire mesh of the interval of 100nm to 150nm, it is possible to extract the linearly polarized light from the visible to the infrared region.

- In the infrared region, the extinction ratio of 10-3 degree can be obtained.
- It has superior heat resistance when compared to the polarizing film of the absorption type.
- It is fixed to the frame so it is easy to handle this filter.
- Only linearly polarized light that is vibrated in the direction of the mark of the metal frame is transmitted.

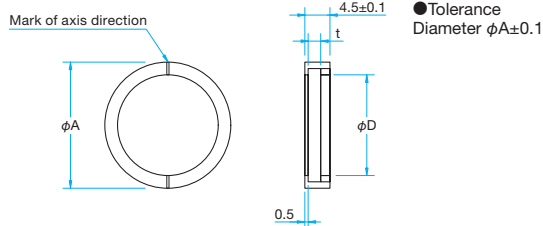


Schematic



Outline Drawing

(in mm)



Specifications

Material	Optical glass, Wire grid polarizing film
Coating	Uncoated
Material of metal frame	Aluminum Finishing: Black alumite (anodized)

Guide

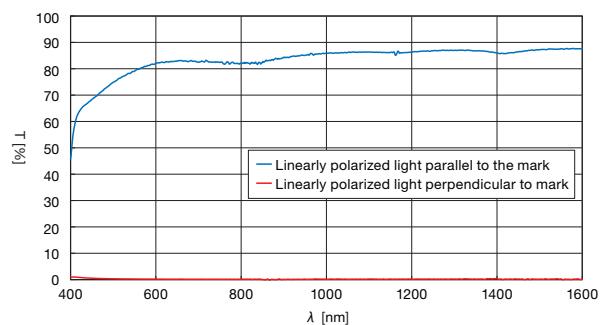
- ▶ Other sizes are available, please consult our Sales Division.
- ▶ Glan-Thompson prism (GTPB / GTPC), which can obtain high transmittance and extinction ratio is also available.

Attention

- ▶ Most of the light that is not transmitted will be reflected.
- ▶ Please note processing of the reflected (return) light when used with a laser. Because it is easy to be scratched, please do not wipe with a cloth or paper on wire grid surface.

Typical Transmittance Data

T: Transmission



Specifications

Part Number	Wavelength Range [nm]	Diameter of frame ϕA [mm]	Clear aperture ϕD [mm]	Thickness t [mm]
WGPF-30C	420 - 1600	$\phi 30$	$\phi 23$	2.2

Compatible Optic Mounts

PH-30-ARS / SPH-30-ARS