## Optical filters for light sources Heat reflecting filter

- High flat VIS transmission
- High IR reflection up to 1150 nm
- Operating temperature up to $400^{\circ} \mathrm{C}$

This non-absorbing filter transmits the VIS while reflecting the heat-generating NIR.
If only the VIS radiation of a light source is required this might be an alternative to the heat absorbing water filter.

The filter is typically used at normal $\left(0^{\circ}\right)$ incidence to the source of radiation. In this position, the VIS radiation is passed without deviation while the NIR is reflected back to the light source.

Because of its all dielectric coating construction and the heat-resistant borosilicate glass substrate this filter can be used at high operating temperatures of up to $400^{\circ} \mathrm{C}$.
We found no damage in the collimated beam of our light sources up to 1000 W .

When used at $45^{\circ}$ the transmittance reflectance curve is shifted towards shorter wavelengths. For higher rejection of IR use colored, heat-absorbing glass filters. The VIS transmittance is the output of both filters.


