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KO | BRINGING QUALITY INTO FOCUS

Heat Filters for use in Heat Sensitive Systems

Knight Optical can offer [Heat Filters](#) for use in Heat Sensitive Systems.

We supply a range of heat Filters for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers in Heat Sensitive Systems. Heat Filters are designed to transmit visible wavelengths to absorb or reflect heat causing infrared wavelengths preventing it from reaching your system.

Care has to be taken in the design of systems using heat filters. Absorptive blockers will heat up with use and could result in damage to the filter. Reflective blockers will redirect the heat to another location in your system.

For more information read PDF

They can be used in systems with heat sensitive components that would otherwise receive too much incident IR transmission. They are often used as protective filters for projector optics.

Typical specs:

Material:	Schott KG1, Dielectric Coated Borosilicate
Shape:	Circular Filter, Square Filter
Dimensional Tolerances:	+/- 0.1mm
Parallelism:	< 5 arc minutes
Surface Accuracy:	< 5(2) @ 633nm
Surface Quality:	< 40-20 Scratch/Dig

All our heat filters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Zygo Verifire Interferometer and our Cary 5000 spectrophotometer. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discover how Knight Optical's high quality heat filters and superior service can improve your instrumentation and supply chain experience.

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