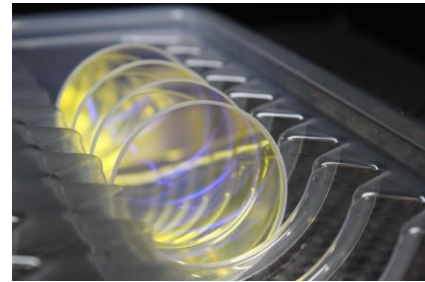


Shortpass Filter

Schneider-Kreuznach magnetron sputtered industrial shortpass filters impress with steep slopes and high transmission at stable cut-on wavelengths. The very flat surface makes them ideal for high end machine vision systems in factory automation. All shortpass filters come with superior antireflection coating.

Schneider Kreuznach shortpass filters are RoHS conform. Custom sizes are available on request.



Key Features

- Ave. Transmittance 95 %
- Steep Slopes
- Wavelength Tolerance +/- 1 %
- Ultra Low Reflection
- Deep Blocking / High OD

Applications

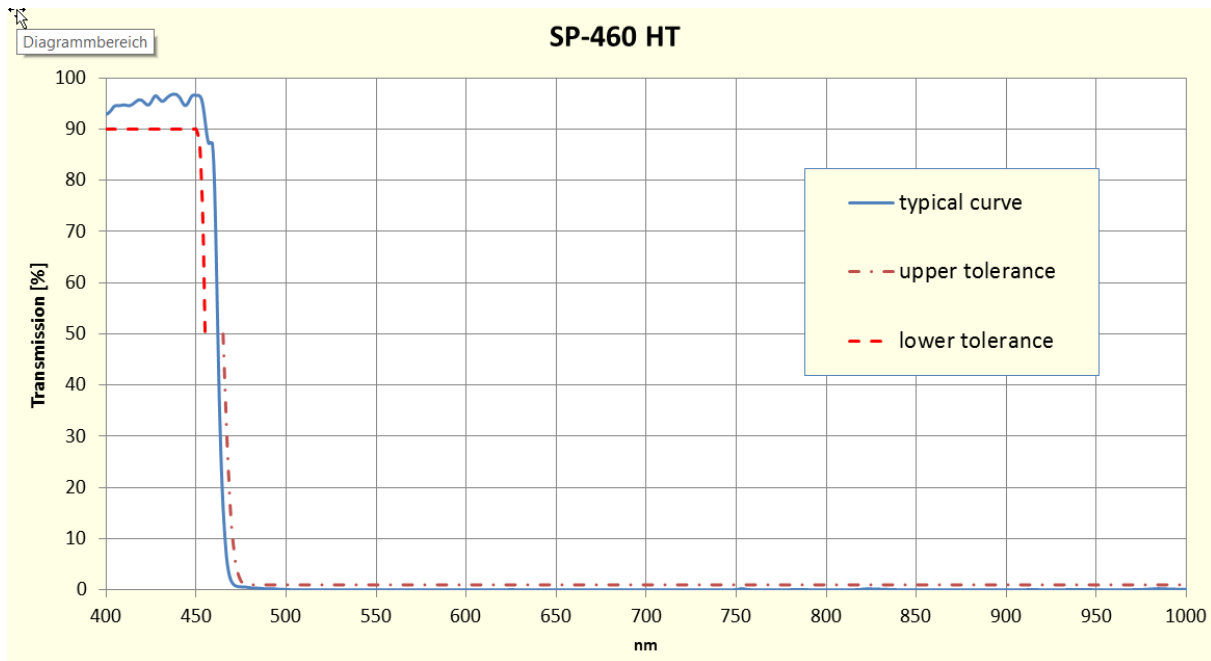
- Metrology
- 3D Measurement
- Food & Beverage Inspection
- Automotive
- Security / Surveillance

General technical specifications

according to ISO 10110

Parallelism	1'
Surface	19-30mm: 5/2x0,10 C2 x 0,10 L3x0,008 31-50mm: 5/2x0,16 C1 x 0,16 L3x0,008 51-64mm: 5/3x0,16 C3 x 0,16 L3x0,008
Wavefront distortion	19 – 30 mm:13/1 (0.2) 31 – 50 mm:13/1 (0.25) 51 – 64 mm:13/1 (0.35)
Thickness	2.0 +/- 0.08 mm
Climate Testing	
Slow temperature cycling	DIN ISO 9022-2-14-03 -1
Damp heat, cyclic	DIN ISO 9022-2-16-01-1
Chemical resistant	DIN ISO 9011-4-04-05
Adhesive strength	DIN ISO 9211-4-02-03

Shortpass Filter SP 460 HT



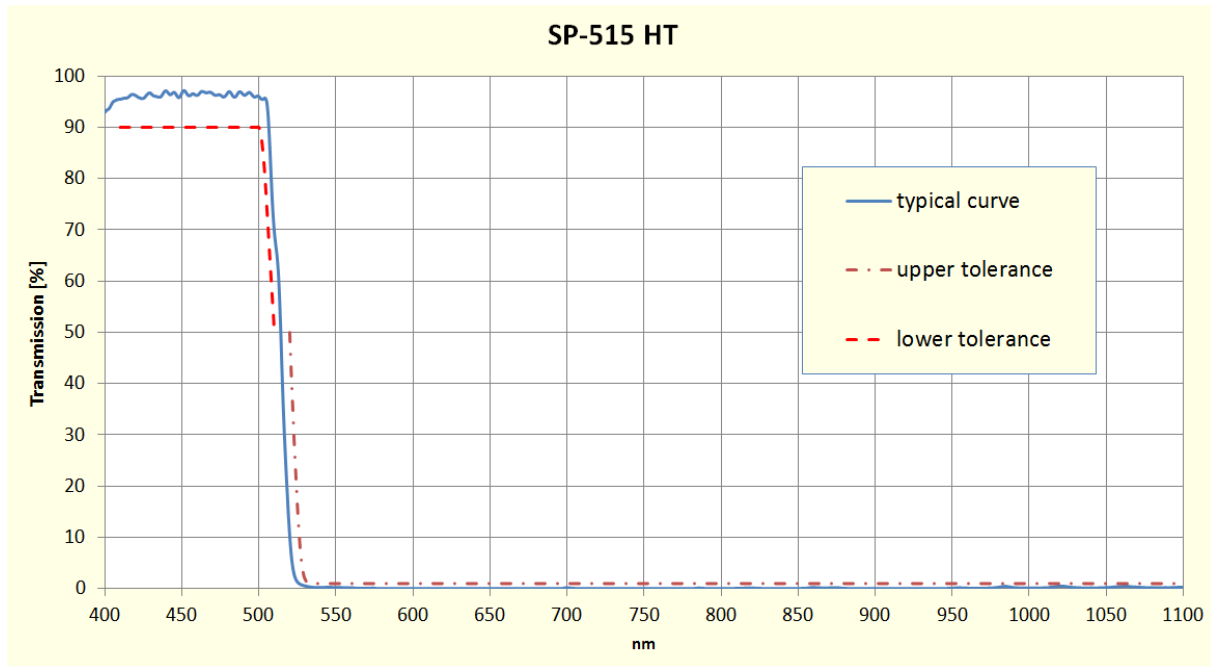
Technical specifications

according to ISO 10110

Angle of incident	0° +/- 8°
Cut-on wavelength	460 +/- 6 nm
Transmittance	400 – 450 nm: T _{abs} > 90%
Blocking	480 - 1000 nm: T _{abs} < 1.0%
AR coating	ULR

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 460 HT 19,0 2-0001		CMT	IF SP 460 HT CMT	
27 mm	IFG SP 460 HT 27,0 2-0001		SH 25.5	IF SP 460 HT SH 25.5	
34 mm	IFG SP 460 HT 34,0 2-0001		SH 27.0	IF SP 460 HT SH 27.0	
43 mm	IFG SP 460 HT 43,0 2-0001		SN1 30.5	IF SP 460 HT SN1 30.5	
55 mm	IFG SP 460 HT 55,0 2-0001		SH 35.5	IF SP 460 HT SH 35.5	
64 mm	IFG SP 460 HT 64,0 2-0001		SH 37.0	IF SP 460 HT SH 37.0	
			SH 39.0	IF SP 460 HT SH 39.0	
			SH 40.5	IF SP 460 HT SH 40.5	
			SH 43.0	IF SP 460 HT SH 43.0	
			SH 46.0	IF SP 460 HT SH 46.0	
			SH 49.0	IF SP 460 HT SH 49.0	
			SH 52.0	IF SP 460 HT SH 52.0	
			SH 55.0	IF SP 460 HT SH 55.0	
			SH 58.0	IF SP 460 HT SH 58.0	
			SH 62.0	IF SP 460 HT SH 62.0	
			SH 67.0	IF SP 460 HT SH 67.0	

Shortpass Filter SP 515 HT



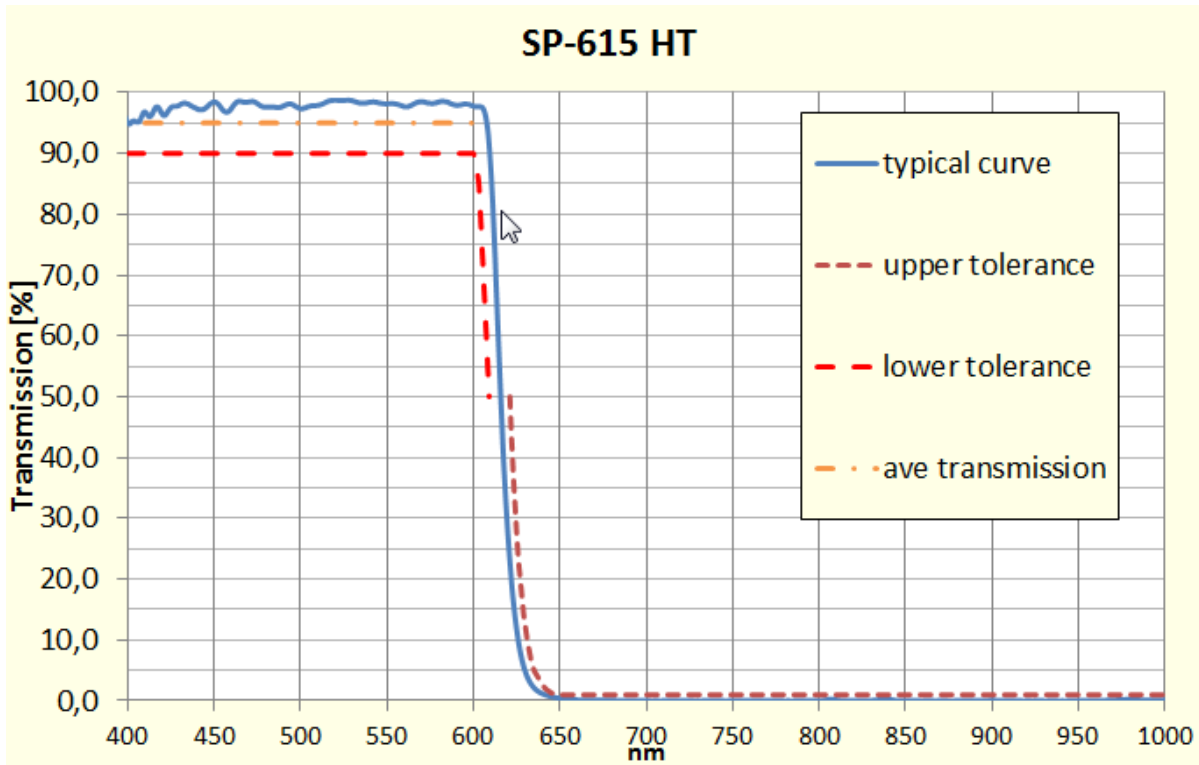
Technical specifications

according to ISO 10110

Angle of incident	0° +/- 8°
Cut-on wavelength	515 +/- 6 nm
Transmittance	410 - 500 nm: T _{abs} > 90%
Blocking	560 - 1100 nm: T _{abs} < 1.0%
AR coating	ULR

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 615 HT 19,0 2-0001		CMT	IF SP 515 HT CMT	
27 mm	IFG SP 515 HT 27,0 2-0001		SH 25.5	IF SP 515 HT SH 25.5	
34 mm	IFG SP 515 HT 34,0 2-0001		SH 27.0	IF SP 515 HT SH 27.0	
43 mm	IFG SP 515 HT 43,0 2-0001		SN1 30.5	IF SP 515 HT SN1 30.5	
55 mm	IFG SP 515 HT 55,0 2-0001		SH 35.5	IF SP 515 HT SH 35.5	
64 mm	IFG SP 515 HT 64,0 2-0001		SH 37.0	IF SP 515 HT SH 37.0	
			SH 39.0	IF SP 515 HT SH 39.0	
			SH 40.5	IF SP 515 HT SH 40.5	
			SH 43.0	IF SP 515 HT SH 43.0	
			SH 46.0	IF SP 515 HT SH 46.0	
			SH 49.0	IF SP 515 HT SH 49.0	
			SH 52.0	IF SP 515 HT SH 52.0	
			SH 55.0	IF SP 515 HT SH 55.0	
			SH 58.0	IF SP 515 HT SH 58.0	
			SH 62.0	IF SP 515 HT SH 62.0	
			SH 67.0	IF SP 515 HT SH 67.0	

Shortpass Filter SP 615 HT



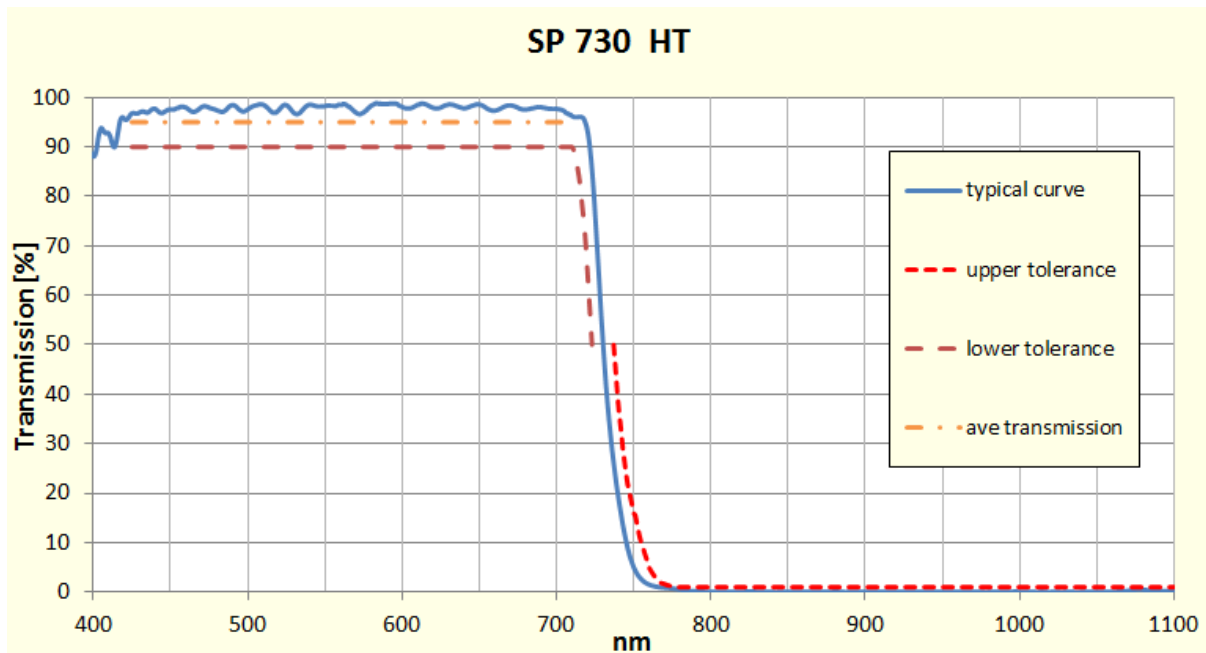
Technical specifications

according to ISO 10110

Angle of incident	0° +/- 8°
Cut-on wavelength	615 +/- 6 nm
Transmittance	400 - 600 nm: T _{ave} > 95% 410 - 600 nm: T _{abs} > 90%
Blocking	650 - 1000 nm: T _{abs} < 1.0%
AR coating	ULR

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 615 HT 19,0 2-0001	1082589	CMT	IF SP 615 HT CMT	
27 mm	IFG SP 615 HT 27,0 2-0001	1082590	SH 25.5	IF SP 615 HT SH 25.5	
34 mm	IFG SP 615 HT 34,0 2-0001	1082591	SH 27.0	IF SP 615 HT SH 27.0	1085296
43 mm	IFG SP 615 HT 43,0 2-0001	1082592	SN1 30.5	IF SP 615 HT SN1 30.5	
55 mm	IFG SP 615 HT 55,0 2-0001	1082593	SH 35.5	IF SP 615 HT SH 35.5	
64 mm	IFG SP 615 HT 64,0 2-0001	1082594	SH 37.0	IF SP 615 HT SH 37.0	
			SH 39.0	IF SP 615 HT SH 39.0	
			SH 40.5	IF SP 615 HT SH 40.5	1088027
			SH 43.0	IF SP 615 HT SH 43.0	
			SH 46.0	IF SP 615 HT SH 46.0	1086654
			SH 49.0	IF SP 615 HT SH 49.0	
			SH 52.0	IF SP 615 HT SH 52.0	1088685
			SH 55.0	IF SP 615 HT SH 55.0	
			SH 58.0	IF SP 615 HT SH 58.0	
			SH 62.0	IF SP 615 HT SH 62.0	
			SH 67.0	IF SP 615 HT SH 67.0	

Shortpass Filter SP 730 HT



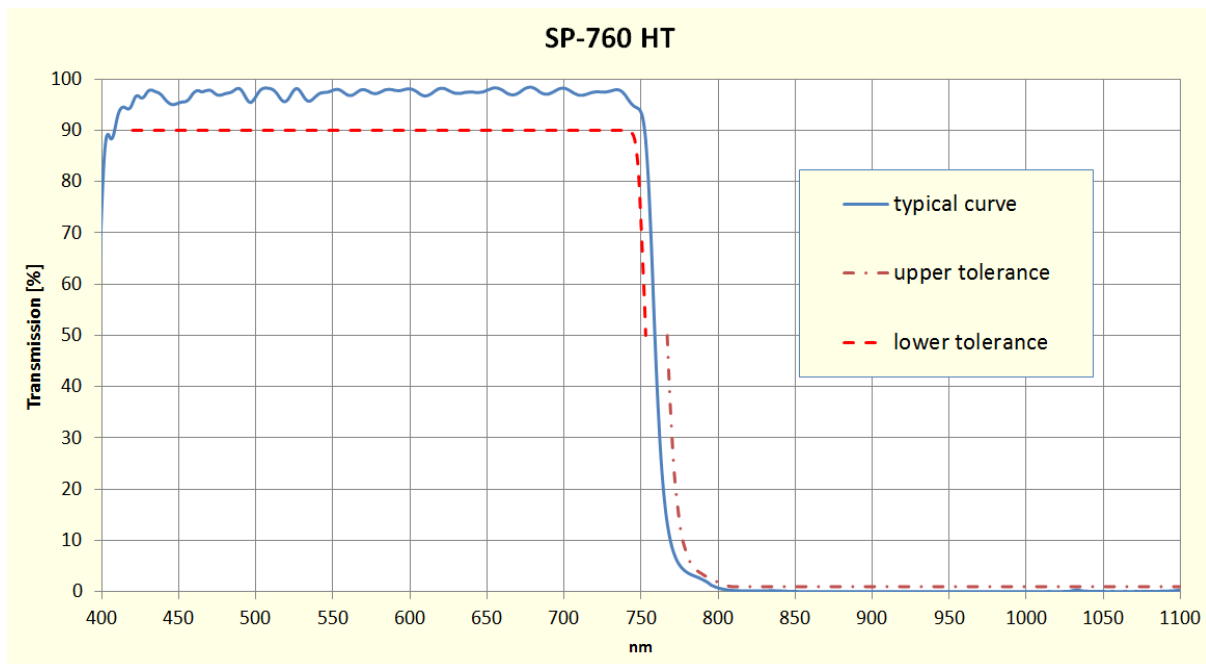
according to ISO 10110

Technical specifications

Angle of incident	0° +/- 8°
Cut-on wavelength	730 +/- 7 nm
Transmittance	425 – 710 nm: T _{ave} > 95%, T _{abs} > 90%
Blocking	780 – 1100 nm: T _{abs} < 1.0%
AR coating	ULR

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 730 HT 19,0 2-0001	1082595	CMT	IF SP 730 HT CMT	
27 mm	IFG SP 730 HT 27,0 2-0001	1082596	SH 25.5	IF SP 730 HT SH 25.5	
34 mm	IFG SP 730 HT 34,0 2-0001	1082597	SH 27.0	IF SP 730 HT SH 27.0	
43 mm	IFG SP 730 HT 43,0 2-0001	1082598	SN1 30.5	IF SP 730 HT SN1 30.5	
55 mm	IFG SP 730 HT 55,0 2-0001	1082599	SH 35.5	IF SP 730 HT SH 35.5	1088050
64 mm	IFG SP 730 HT 64,0 2-0001	1082600	SH 37.0	IF SP 730 HT SH 37.0	
			SH 39.0	IF SP 730 HT SH 39.0	
			SH 40.5	IF SP 730 HT SH 40.5	1087385
			SH 43.0	IF SP 730 HT SH 43.0	1085327
			SH 46.0	IF SP 730 HT SH 46.0	
			SH 49.0	IF SP 730 HT SH 49.0	
			SH 52.0	IF SP 730 HT SH 52.0	1091692
			SH 55.0	IF SP 730 HT SH 55.0	
			SH 58.0	IF SP 730 HT SH 58.0	
			SH 62.0	IF SP 730 HT SH 62.0	
			SH 67.0	IF SP 730 HT SH 67.0	

Shortpass Filter SP 760 HT



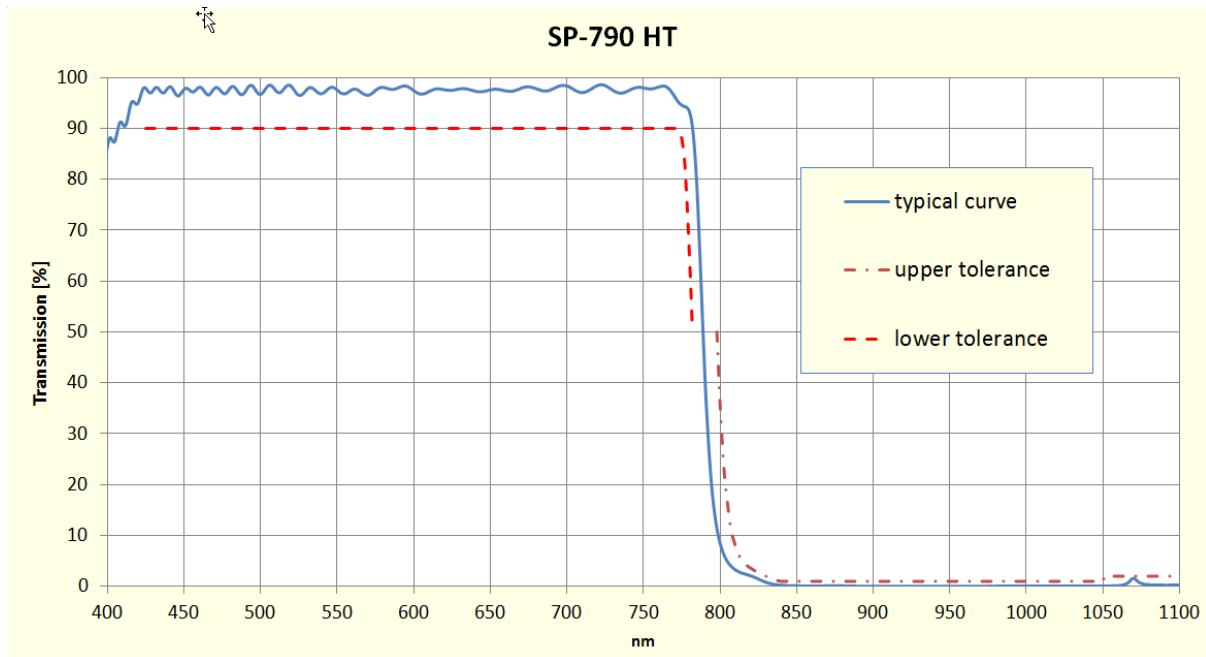
Technical specifications

according to ISO 10110

Angle of incident	0° +/-8°
Cut-on wavelength	760 +/- 8 nm
Transmittance	420 – 740 nm: Tave > 95%
Blocking	810 – 1100 nm: Tabs < 1.0%
AR coating	MCXL

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 760 HT 19,0 2-0001		CMT	IF SP 760 HT CMT	
27 mm	IFG SP 760 HT 27,0 2-0001		SH 25.5	IF SP 760 HT SH 25.5	
34 mm	IFG SP 760 HT 34,0 2-0001		SH 27.0	IF SP 760 HT SH 27.0	
43 mm	IFG SP 760 HT 43,0 2-0001		SN1 30.5	IF SP 760 HT SN1 30.5	
55 mm	IFG SP 760 HT 55,0 2-0001		SH 35.5	IF SP 760 HT SH 35.5	
64 mm	IFG SP 760 HT 64,0 2-0001		SH 37.0	IF SP 760 HT SH 37.0	
			SH 39.0	IF SP 760 HT SH 39.0	
			SH 40.5	IF SP 760 HT SH 40.5	
			SH 43.0	IF SP 760 HT SH 43.0	
			SH 46.0	IF SP 760 HT SH 46.0	
			SH 49.0	IF SP 760 HT SH 49.0	
			SH 52.0	IF SP 760 HT SH 52.0	
			SH 55.0	IF SP 760 HT SH 55.0	
			SH 58.0	IF SP 760 HT SH 58.0	
			SH 62.0	IF SP 760 HT SH 62.0	
			SH 67.0	IF SP 760 HT SH 67.0	

Shortpass Filter SP 790 HT



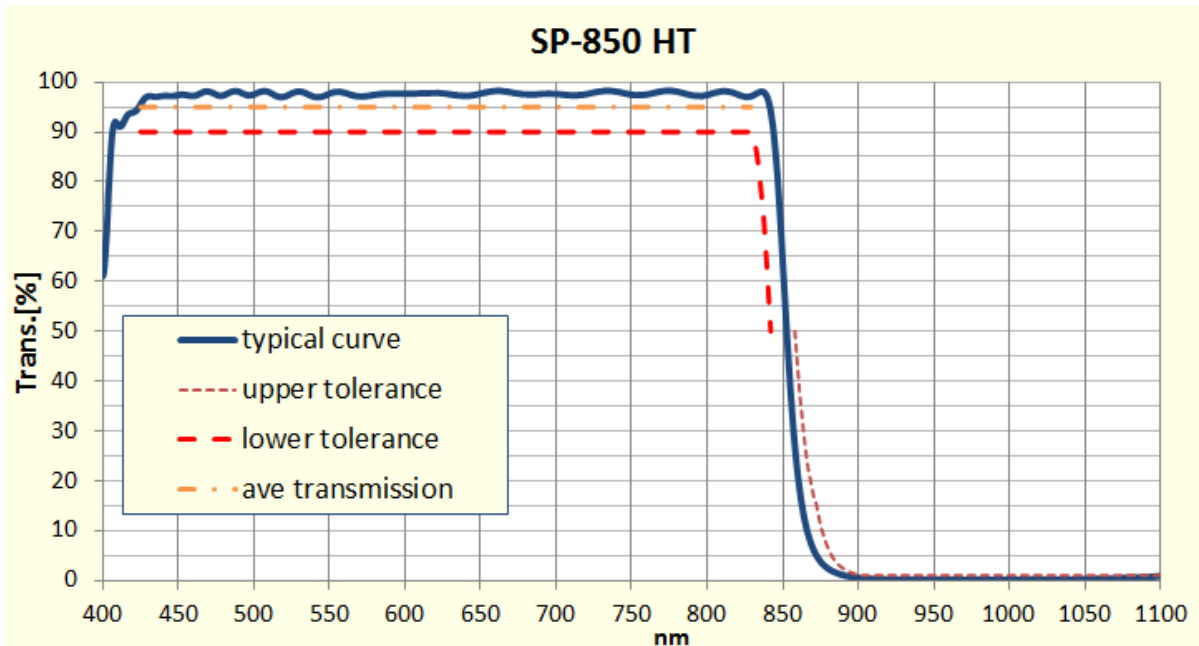
Technical specifications

according to ISO 10110

Angle of incident	0° +/-8°
Cut-on wavelength	790 +/- 8 nm
Transmittance	430 – 770 nm: Tave > 95%
Blocking	840 – 1050 nm: Tabs < 1.0%
AR coating	MCXL

unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 790 HT 19,0 2-0001		CMT	IF SP 790 HT CMT	
27 mm	IFG SP 790 HT 27,0 2-0001		SH 25.5	IF SP 790 HT SH 25.5	
34 mm	IFG SP 790 HT 34,0 2-0001		SH 27.0	IF SP 790 HT SH 27.0	
43 mm	IFG SP 790 HT 43,0 2-0001		SN1 30.5	IF SP 790 HT SN1 30.5	
55 mm	IFG SP 790 HT 55,0 2-0001		SH 35.5	IF SP 790 HT SH 35.5	
64 mm	IFG SP 790 HT 64,0 2-0001		SH 37.0	IF SP 790 HT SH 37.0	
			SH 39.0	IF SP 790 HT SH 39.0	
			SH 40.5	IF SP 790 HT SH 40.5	
			SH 43.0	IF SP 790 HT SH 43.0	
			SH 46.0	IF SP 790 HT SH 46.0	
			SH 49.0	IF SP 790 HT SH 49.0	
			SH 52.0	IF SP 790 HT SH 52.0	
			SH 55.0	IF SP 790 HT SH 55.0	
			SH 58.0	IF SP 790 HT SH 58.0	
			SH 62.0	IF SP 790 HT SH 62.0	
			SH 67.0	IF SP 790 HT SH 67.0	

Shortpass Filter SP 850 HT



Technical specifications

according to ISO 10110

Angle of incident	0° +/- 8°
Cut-on wavelength	850 +/- 8 nm
Transmittance	425 – 830 nm: T _{ave} > 95%, T _{abs} > 90%
Blocking	900 – 1100 nm: T _{abs} < 1.0%
AR coating	MCXL

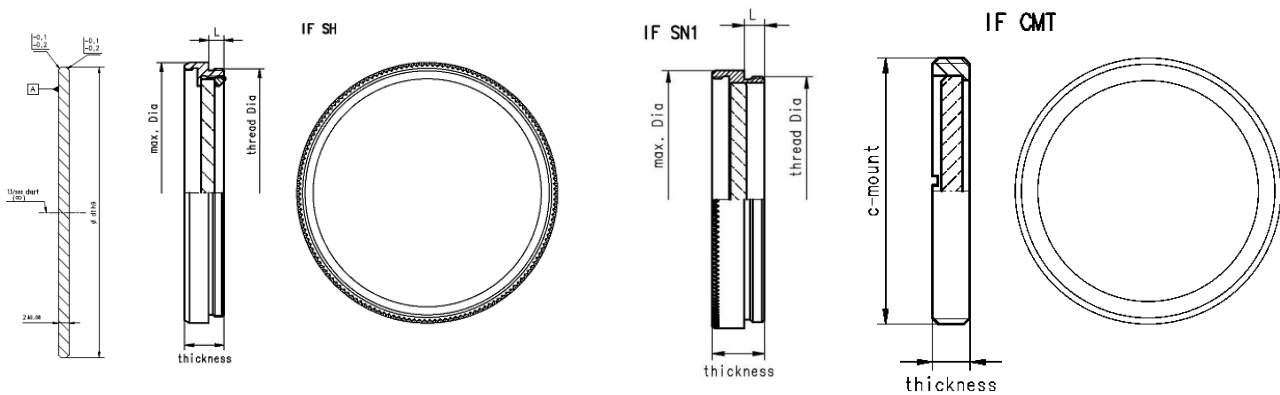
unmounted	filter glass	ID	mounted	filter	ID
19 mm	IFG SP 850 HT 19,0 2-0001	1082601	CMT	IF SP 850 HT CMT	
27 mm	IFG SP 850 HT 27,0 2-0001	1082602	SH 25.5	IF SP 850 HT SH 25.5	1086124
34 mm	IFG SP 850 HT 34,0 2-0001	1082603	SH 27.0	IF SP 850 HT SH 27.0	1091768
43 mm	IFG SP 850 HT 43,0 2-0001	1082604	SN1 30.5	IF SP 850 HT SN1 30.5	1085797
55 mm	IFG SP 850 HT 55,0 2-0001	1082605	SH 35.5	IF SP 850 HT SH 35.5	
64 mm	IFG SP 850 HT 64,0 2-0001	1082606	SH 37.0	IF SP 850 HT SH 37.0	1085799
			SH 39.0	IF SP 850 HT SH 39.0	
			SH 40.5	IF SP 850 HT SH 40.5	
			SH 43.0	IF SP 850 HT SH 43.0	
			SH 46.0	IF SP 850 HT SH 46.0	
			SH 49.0	IF SP 850 HT SH 49.0	1086023
			SH 52.0	IF SP 850 HT SH 52.0	
			SH 55.0	IF SP 850 HT SH 55.0	
			SH 58.0	IF SP 850 HT SH 58.0	
			SH 62.0	IF SP 850 HT SH 62.0	
			SH 67.0	IF SP 850 HT SH 67.0	

Shortpass Filter

Next to the standard sizes we offer more on request. Schneider-Kreuznach provides professional highly accurate μ water jet cutting capability. This technology allows cutting almost any needed shape. More mounted diameters are available for high volume on request.

An easy method to create a customized band pass is to combine a shortpass filter with a longpass filter. This is an effective way when the standard range of bandpass filters does not fit the application. Schneider-Kreuznach offers a series of shortpass filters and of longpass filters.

See also Schneider-Kreuznach bandpass filters as alternative.



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