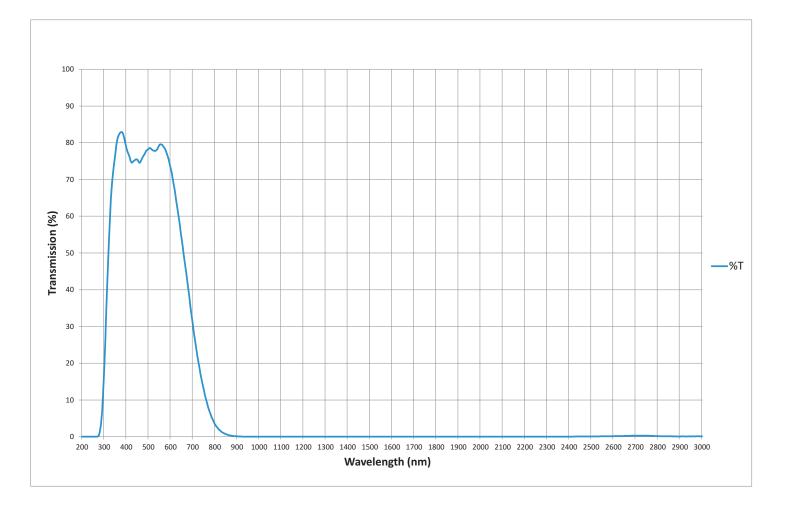
OPTICAL FILTERS

Title: Colour glass filter (Shortpass) Material/Specification: 668nm, Schott KG5 Range/Description: 668FCS





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OPTICAL FILTERS

Bubble content Bubble class Chemical resistance FR class 0 SR class 3.					0.92 0 3.0 4.0		$\begin{array}{llllllllllllllllllllllllllllllllllll$			Per DIN 58191 Per DIN 58191 Ionically colored glass		KP 689
Limit va for thickr		of _i d=2mn	n				Transm [nm]	ittance and	l internal tr i	ansmittan [nm]	ice ₁ = 2 mm	1
Wave-			imits		Value	from	200	<1·10 ⁻⁵	<1·10 ⁻⁵	700	0.37	0.40
length [n	m					og curve	210	<1.10-5	<1.10-5	710	0.32	0.35
365			0.80		0.89		220	<1.10-5	<1.10-5	720	0.28	0.30
500			0.86		0.89		230	<1·10 ⁻⁵	<1·10 ⁻⁵	730	0.23	0.26
600			0.80		0.84		240	<1·10 ⁻⁵	<1.10-5	740	0.20	0.21
700			0.43		0.40		250	<1·10 ⁻⁵	<1·10 ⁻⁵	750	0.16	0.18
800			0.09		0.06		260	<1·10 ⁻⁵	<1·10 ⁻⁵	760	0.13	0.15
000			0.008		0.002		270	<1·10 ⁻⁵	<1·10 ⁻⁵	770	0.11	0.12
060			1.10-4		3.10		280	<1·10 ⁻⁵	<1·10 ⁻⁵	780	0.08	0.09
2200			0.001		5.10-	•	290	0.002	0.002	790	0.07	0.07
							300	0.02	0.02	800	0.05	0.06
Refracti	ive in						310	0.10	0.11	850	0.01	0.01
[nm]			lement		n		320	0.27	0.29	900	0.002	0.002
865			lg		1.53		330	0.47	0.52	950	4.10-4	4.10-4
87.6		H	le		1.51		340	0.63	0.68	1000	9.10-5	1.10-4
							350	0.73	0.80	1060	3·10 ⁻⁵ 2·10 ⁻⁵	3·10 ⁻⁵ 2·10 ⁻⁵
							360	0.80	0.87	1100	<1.10 ⁻⁵	<1.10 ⁻⁵
Tristimulus values						370 380	0.83	0.90 0.91	1200 1300	<1.10 ⁻⁵	<1.10 - 5	
d x y			Y		Pe	390	0.83	0.90	1400	2.10-5	2.10-5	
	mm]	~	,		d [nm]	· e	400	0.81	0.88	1500	4.10-5	4.10-5
× 1		0.440	0.411	85	505	0.02	410	0.79	0.86	1600	2.10-4	2.10-4
856 2		0.434	0.415	78	505	0.03	420	0.78	0.85	1700	4.10-4	4.10-4
(3		0.428	0.419	72	505	0.05	430	0.78	0.85	1800	6.10-4	7.10-4
5		0.416	0.425	62	505	0.07	440	0.79	0.86	1900	6.10-4	7.10-4
1		0.417	0.403	85	503	0.02	450	0.80	0.87	2000	6.10-4	6.10-4
200 2		0.410	0.406	78	503	0.03	460	0.79	0.86	2100	5.10-4	5.10-4
(3		0.404	0.409	72	503	0.05	470	0.80	0.87	2200	5.10-4	5.10-4
5		0.394	0.415	62	504	0.07	480	0.81	0.88	2300	7.10-4	8.10-4
1		0.308	0.331	85	496	0.02	490	0.81	0.89	2400	0.002	0.002
0 ₆₅ 2		0.304	0.333	79	497	0.03	500	0.82	0.89	2500	0.003	0.003
35		0.300	0.334	74	497	0.04	510	0.82	0.89	2600	0.005	0.005
5		0.294	0.338	64	497	0.06	520 530	0.81 0.81	0.88	2700 2800	0.007 8·10 ⁻⁴	0.008 9·10 ⁻⁴
nnline	tion	notes					540	0.81	0.88	2900	2.10-4	2.10-4
Application notes Short pass filter						550	0.82	0.89	3000	2.10-4	2.10-4	
non pa							560	0.82	0.89	3200	3.10-4	3.10-4
							570	0.82	0.89	3400	6.10-4	6.10-4
[1]						580	0.81	0.88	3600	0.002	0.002	
Long-term changes in the polished						590	0.79	0.86	3800	9.10-4	0.001	
surface are possible under some						600	0.77	0.84	4000	8·10 ⁻⁵	9-10-5	
circumstances						610	0.75	0.81	4200	<1·10 ⁻⁵	<1·10 ⁻⁵	
							620	0.71	0.78	4400	<1·10 ⁻⁵	<1.10 ⁻⁵
							630	0.68	0.74	4600	<1·10 ⁻⁵	<1·10 ⁻⁵
V							640	0.64	0.70	4800	<1·10 ⁻⁵	<1·10 ⁻⁵
Transmission changes are possible							650	0.60	0.65	5000	<1·10 ⁻⁵	<1·10 ⁻⁵
under the action of intense							660	0.56	0.60	5200	<1.10 ⁻⁵	<1·10 ⁻⁵
ultraviolet radiation						670	0.51	0.56				
- see section 8.3							680	0.46	0.51	-		
		1997					690	0.41	0.45			

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