

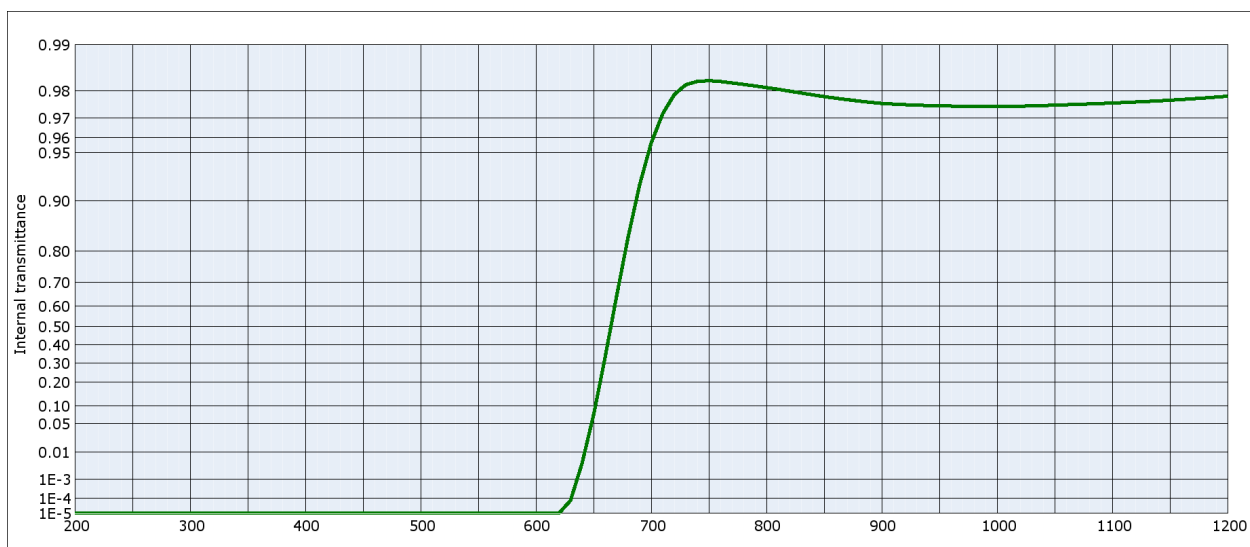
Data Sheet



RG665		Density		Notes	
		ρ [g/cm ³]	2.77		Colloidally colored glass
		Bubble content		Longpass filter	
Reflection factor					
P_d	0.918		Bubble class		3
Reference thickness		Chemical Resistance			
d [mm]	3		FR class	0	
		SR class	1.0		
		AR class	1.0		
Spectral values guaranteed		Transformation temperature			
λ_c ($\tau_i = 0.5$) [nm]	= 665 ± 6		Tg [°C]	527	
λ_s ($\tau_{i,U} = 10^{-5}$) [nm]	= 580		Thermal expansion		
λ_p ($\tau_{i,L} = 0.96$) [nm]	= 750		$\alpha_{30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	8.1	
			$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	9.4	
			$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]		
Refractive Index n		Temperature coefficient			
n_e (546.1 nm) = 1.524			T_K [nm/°C]	0.17	
n_d (587.6 nm) = 1.522					
n_s (852.1 nm) = 1.514					
n_t (1014.0 nm) = 1.512					
Sellmeier coefficients on request					

**All data without tolerances are to be understood to be reference values.
Guaranteed values are only those values listed in the section "Spectral values guaranteed".**

Colorimetric evaluation												
Illuminant A (Planck T = 2856 K)				Illuminant Planck T = 3200 K				Illuminant D65 (T _c = 6504 K)				
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3	
x	0.631	0.726	0.732	x	0.612	0.724	0.732	x	0.487	0.711	0.731	
y	0.318	0.272	0.268	y	0.320	0.272	0.268	y	0.305	0.272	0.268	
Y	4	2	1	Y	4	1	1	Y	3	1	1	
λ_d [nm]	656	664	671	λ_d [nm]	656	664	670	λ_d [nm]	654	662	668	
P_e	0.65	0.98	1.00	P_e	0.62	0.98	1.00	P_e	0.42	0.95	1.00	



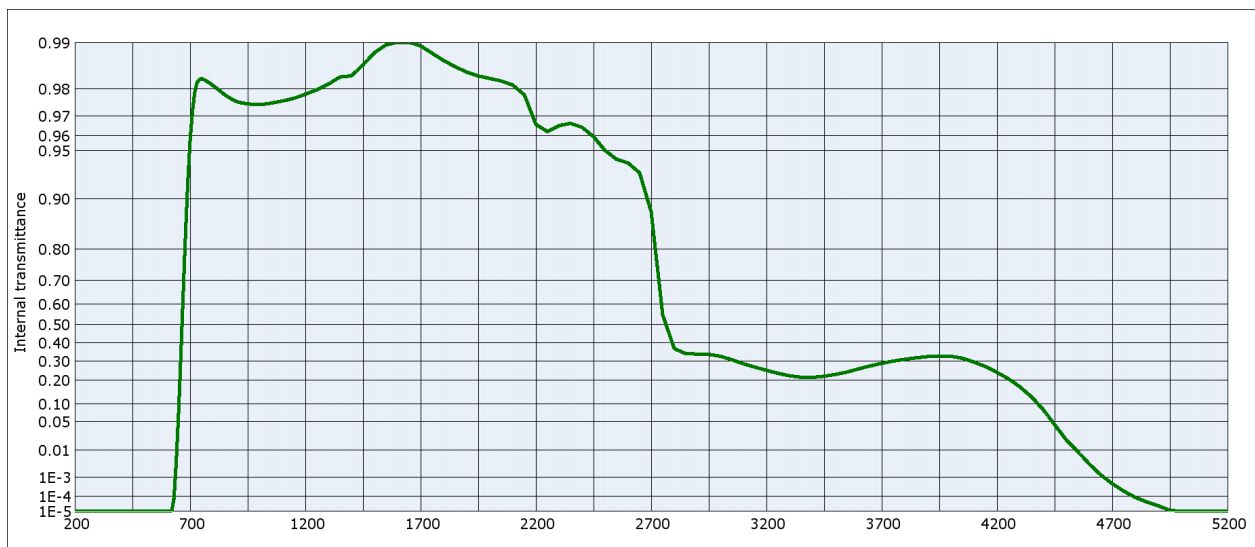
50mm SCHOTT RG665 RED LONGPASS FILTER 3mm thick

<https://www.galvoptics.co.uk/optical-components/optical-filters/schott-longpass-filters/>

Please CLICK link above to buy ONLINE

RG665

SCHOTT



Internal transmittance τ_i at reference thickness $d = 3 \text{ mm}$ The internal transmittance values, tabulated and graphically represented, are reference values only											
λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i
200	$< 10^{-5}$	500	$< 10^{-5}$	800	0.981	1100	0.976	2200	0.966	3700	0.287
210	$< 10^{-5}$	510	$< 10^{-5}$	810	0.980	1110	0.976	2250	0.962	3750	0.299
220	$< 10^{-5}$	520	$< 10^{-5}$	820	0.980	1120	0.976	2300	0.965	3800	0.309
230	$< 10^{-5}$	530	$< 10^{-5}$	830	0.979	1130	0.977	2350	0.967	3850	0.317
240	$< 10^{-5}$	540	$< 10^{-5}$	840	0.979	1140	0.977	2400	0.965	3900	0.324
250	$< 10^{-5}$	550	$< 10^{-5}$	850	0.978	1150	0.977	2450	0.959	3950	0.327
260	$< 10^{-5}$	560	$< 10^{-5}$	860	0.978	1160	0.977	2500	0.950	4000	0.326
270	$< 10^{-5}$	570	$< 10^{-5}$	870	0.977	1170	0.977	2550	0.943	4050	0.315
280	$< 10^{-5}$	580	$< 10^{-5}$	880	0.977	1180	0.978	2600	0.940	4100	0.294
290	$< 10^{-5}$	590	$< 10^{-5}$	890	0.976	1190	0.978	2650	0.931	4150	0.270
300	$< 10^{-5}$	600	$< 10^{-5}$	900	0.976	1200	0.978	2700	0.880	4200	0.240
310	$< 10^{-5}$	610	$< 10^{-5}$	910	0.976	1250	0.980	2750	0.548	4250	0.207
320	$< 10^{-5}$	620	$< 10^{-5}$	920	0.975	1300	0.981	2800	0.368	4300	0.169
330	$< 10^{-5}$	630	$7.4 \cdot 10^{-5}$	930	0.975	1350	0.983	2850	0.340	4350	0.127
340	$< 10^{-5}$	640	$4.3 \cdot 10^{-3}$	940	0.975	1400	0.984	2900	0.338	4400	$8.3 \cdot 10^{-2}$
350	$< 10^{-5}$	650	$7.2 \cdot 10^{-2}$	950	0.975	1450	0.986	2950	0.336	4450	$4.3 \cdot 10^{-2}$
360	$< 10^{-5}$	660	0.330	960	0.975	1500	0.988	3000	0.326	4500	$2.0 \cdot 10^{-2}$
370	$< 10^{-5}$	670	0.643	970	0.975	1550	0.990	3050	0.307	4550	$9.2 \cdot 10^{-3}$
380	$< 10^{-5}$	680	0.834	980	0.975	1600	0.990	3100	0.285	4600	$3.5 \cdot 10^{-3}$
390	$< 10^{-5}$	690	0.920	990	0.975	1650	0.990	3150	0.267	4650	$1.3 \cdot 10^{-3}$
400	$< 10^{-5}$	700	0.957	1000	0.975	1700	0.989	3200	0.250	4700	$5.0 \cdot 10^{-4}$
410	$< 10^{-5}$	710	0.972	1010	0.975	1750	0.988	3250	0.235	4750	$2.0 \cdot 10^{-4}$
420	$< 10^{-5}$	720	0.979	1020	0.975	1800	0.987	3300	0.222	4800	$8.7 \cdot 10^{-5}$
430	$< 10^{-5}$	730	0.982	1030	0.975	1850	0.986	3350	0.215	4850	$4.5 \cdot 10^{-5}$
440	$< 10^{-5}$	740	0.983	1040	0.975	1900	0.984	3400	0.214	4900	$2.5 \cdot 10^{-5}$
450	$< 10^{-5}$	750	0.983	1050	0.975	1950	0.983	3450	0.220	4950	$1.2 \cdot 10^{-5}$
460	$< 10^{-5}$	760	0.983	1060	0.975	2000	0.983	3500	0.229	5000	$< 10^{-5}$
470	$< 10^{-5}$	770	0.982	1070	0.976	2050	0.982	3550	0.241	5050	$< 10^{-5}$
480	$< 10^{-5}$	780	0.982	1080	0.976	2100	0.981	3600	0.258	5100	$< 10^{-5}$
490	$< 10^{-5}$	790	0.981	1090	0.976	2150	0.978	3650	0.273	5150	$< 10^{-5}$