



HOYA CANDEO OPTRONICS CORPORATION

GALVOPTICS LTD - Harvey Rd - Basildon - Essex - SS13 1ES - UK

HOYA R-64 LONGPASS FILTER R64

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

Thickness 2.50 mm

R64

Transmittance (T)		units: %																		
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	0.0	0.0	0.7	8.2	36.1	68.0	83.4	88.0	89.6	90.1	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.3	90.4	90.5	90.5	90.5	90.6	90.5	90.5	90.6	90.6	90.6	90.7	90.7	90.7	90.8	90.8	90.8	90.9	90.9	90.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	91.0	90.9	91.0	91.0	90.9	91.0	90.9	91.0	91.0	91.0	91.0	90.9	91.1	91.1	91.1	91.1				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.551	1.540	1.532	1.527	1.524	1.522	1.521
K	9.8E-03	3.1E-03	3.1E-04	1.7E-09	5.9E-21	1.5E-34	2.2E-48
P	0.911	0.914	0.915	0.917	0.917	0.918	0.918

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

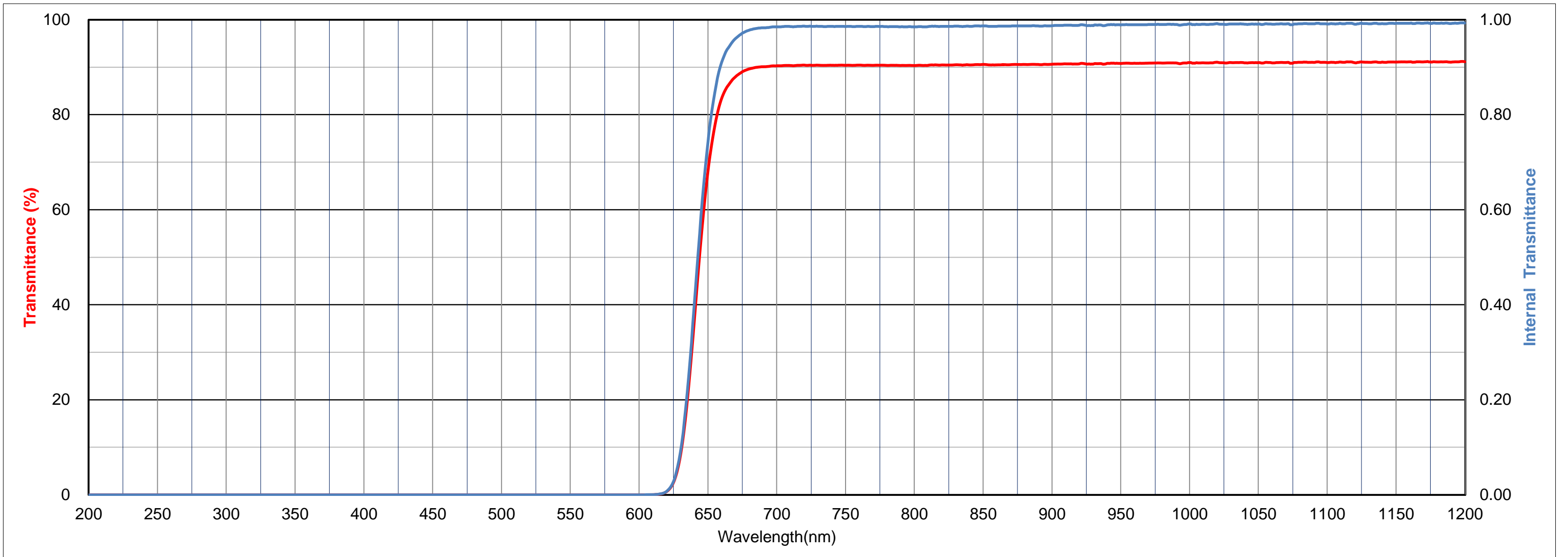
	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	0.726	0.274	4	649	100
C	0.725	0.275	2	648	100
D65	0.725	0.275	2	648	100

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	α <sub>-30/70</sub>	α <sub>100/300</sub>	H <sub>K</sub>	F <sub>A</sub>	d
1	1	555	620	94	106	520	140	2.68

Tolerance of Transmittance (τ)

λτ (nm)	Δλ (nm)	TH (%)
640±5	<35	>85



All data is mean values of various melts.

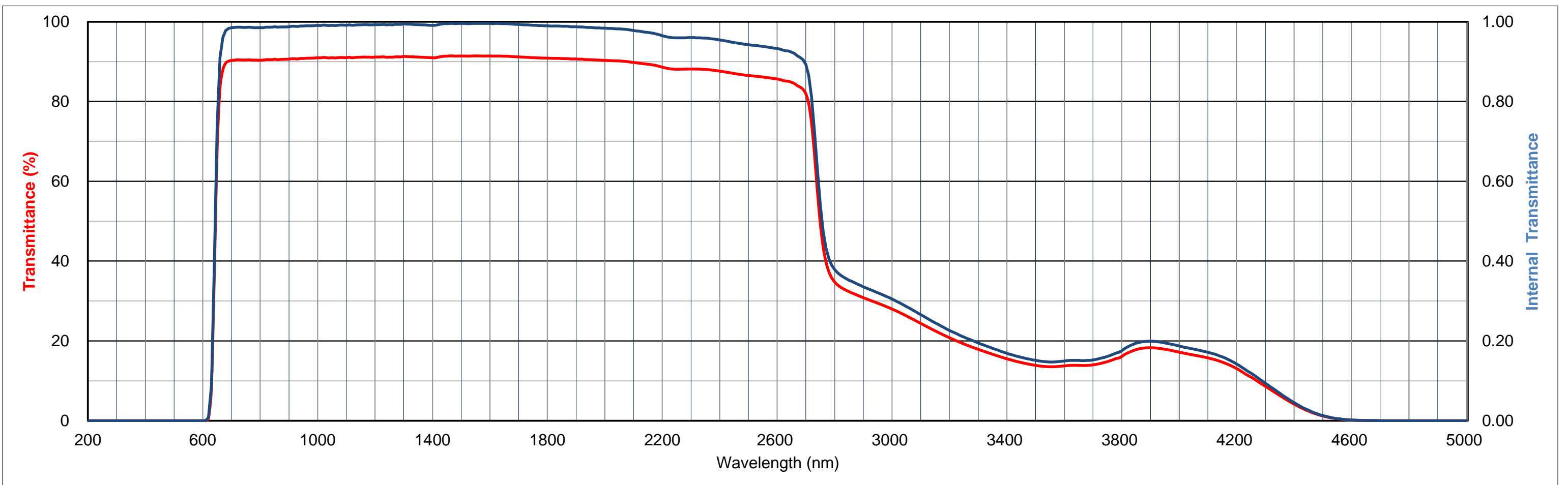
The content of this catalog is accurate as of April ,2014



HOYA CANDEO OPTRONICS CORPORATION

Transmittance (T) units: %

λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	0.0	0.0	0.7	8.2	36.1	68.0	83.4	88.0	89.6	90.1	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.3	90.4	90.5	90.5	90.5	90.6	90.5	90.5	90.6	90.6	90.6	90.7	90.7	90.7	90.8	90.8	90.8	90.9	90.9	90.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	91.0	90.9	91.0	91.0	90.9	91.0	90.9	91.0	91.0	91.0	91.0	91.1	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	91.1	91.1	91.2	91.2	91.1	91.1	91.1	91.2	91.2	91.2	91.3	91.3	91.2	91.2	91.2	91.1	91.1	91.1	91.0	91.0
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	91.0	91.0	91.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	91.4	91.4	91.4	91.4	91.4	91.3	91.3	91.3	91.3	91.2	91.2	91.1	91.1	91.1	91.0	91.0	90.9	90.9	90.9	90.9
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	90.9	90.8	90.8	90.8	90.8	90.8	90.7	90.7	90.7	90.7	90.7	90.6	90.6	90.5	90.5	90.5	90.4	90.4	90.4	90.3
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	90.3	90.2	89.8	89.3	88.6	88.1	88.1	88.0	87.6	87.0	86.5	86.1	85.6	84.8	81.9	49.7	34.8	32.3	30.8	29.5
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	28.0	26.3	24.4	22.5	20.8	19.2	17.9	16.7	15.5	14.6	13.9	13.5	13.7	13.9	14.0	14.8	16.1	17.8	18.3	17.9
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	17.2	16.5	15.7	14.7	13.1	10.9	8.6	6.3	4.2	2.4	1.2	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



All data is mean values of various melts.

The content of this catalog is accurate as of April ,2014