



**Photo Emission Tech., Inc.**  
 862 PARIOT DRIVE,# F, MOORPARK, CA 93021 USA  
 Tel: (805) 482-5200 Fax: (805) 482-5252  
 Email:[sales@photoemission.com](mailto:sales@photoemission.com)

**LONG PASS FILTERS SPECIFICATIONS**

Part #	LPF-285	LPF-300	LPF-309	LPF-320	LPF-370	LPF-380	LPF-395	LPF-400	LPF-420	LPF-435
Coating	Uncoated									
Color	Clear								Yellow	
Cut-Off Position $\lambda_c$ (nm)	285±6	300±6	309±6	320±6	370±6	380±6	395±6	400±6	420±6	435±6
Cut-On Wavelength (nm)	285	300	309	320	370	380	395	400	420	435
Density (g/cm <sup>2</sup> )	2.51	2.51	2.51	2.51	3.26	2.96	2.55	2.55	2.55	2.51
Diameter (mm)	50									
Substrate	Colored Glass									
Pass band Limit 1 $\lambda_{p1}$ (nm)	380	400	420	470	400	420	480	480	530	520
Spectral Transmittance $t_{ip}$ (%)	99	99	99	99	93	93	92	93	93	92
Stop band Limit $\lambda_s$ (nm)	230	250	260	280	323	333	340	340	360	370
Surface Quality	80-50									
Transformation Temp. (°C)	558	565	562	563	440	480	538	537	535	537
Thickness (mm)	3	3	3	3	3	2.5	3	3	3	3
Wavelength	UV							VIS		
Dimensional Tolerance (mm)	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Reflection Factor $P_d$ :	0.92	0.92	0.92	0.92	0.92	0.91	0.92	0.92	0.92	0.92
RoHS	Compliant									



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**LONG PASS FILTERS SPECIFICATIONS**

Part #	LPF-455	LPF-475	LPF-495	LPF-500	LPF-515	LPF-530	LPF-540	LPF-550	LPF-560	LPF-570
Coating	Uncoated									
Color	Yellow					Orange				
Cut-Off Position $\lambda_c$ (nm)	455±6	475±6	495±6	500±6	515±6	530±6	540±6	550±6	560±6	570±6
Cut-On Wavelength (nm)	455	475	495	500	515	530	540	550	560	570
Density (g/cm <sup>2</sup> )	2.56	2.51	2.56	2.56	2.56	2.56	2.68	2.56	2.68	2.56
Diameter (mm)	50									
Substrate	Colored Glass									
Pass band Limit $1 \lambda_{p1}$ (nm)	530	550	560	520	580	600	570	620	590	640
Spectral Transmittance tip (%)	92	92	92	92	93	93	95	93	96	93
Stop band Limit $\lambda_s$ (nm)	390	410	430	458	440	460	498	480	518	500
Surface Quality	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50
Transformation Temp. (OC)	529	531	535	560	509	506	560	507	560	510
Thickness (mm)	3	3	3	3	3	3	2.5	3	2.5	3
Wavelength	VIS									
Dimensional Tolerance (mm)	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Reflection Factor Pd:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
RoHS	Compliant									



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**LONG PASS FILTERS SPECIFICATIONS**

Part #	LPF-580	LPF-590	LPF-600	LPF-610	LPF-620	LPF-630	LPF-645	LPF-660	LPF-665	LPF-695
Coating	Uncoated									
Color	Red									Black
Cut-Off Position $\lambda_c$ (nm)	580±6	590±6	600±6	610±6	620±6	630±6	645±6	660±6	665±6	695±6
Cut-On Wavelength (nm)	580	590	600	610	620	630	645	660	665	695
Density (g/cm <sup>2</sup> )	2.68	2.56	2.69	2.65	2.68	2.65	2.65	2.85	2.68	2.76
Diameter (mm)	50									
Substrate	Colored Glass									
Pass band Limit $1 \lambda_{p1}$ (nm)	610	660	620	690	710	710	720	680	750	780
Spectral Transmittance tip (%)	96	93	93	94	94	94	94	94	96	96
Stop band Limit $\lambda_s$ (nm)	538	510	558	530	540	540	560	613	580	610
Surface Quality	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50
Transformation Temp. (OC)	560	506	560	520	527	527	519	530	527	532
Thickness (mm)	2.5	3	3	3	2.5	3	3	3	3	3
Wavelength	VIS									
Dimensional Tolerance (mm)	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.25	0.38	0.38
Reflection Factor Pd:	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
RoHS	Compliant									



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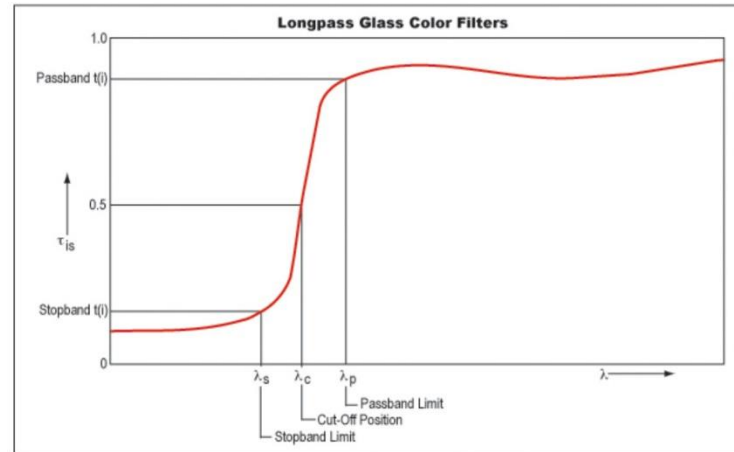
**LONG PASS FILTERS SPECIFICATIONS**

Part #	LPF-715	LPF-720	LPF-760	LPF-780	LPF-800	LPF-830	LPF-850	LPF-1000
Coating	UNCOATED							
Color	BLACK							
Cut-Off Position $\lambda_c$ (nm)	715±6	720±6	760±6	780±6	800±6	830±6	850±6	1000±6
Cut-On Wavelength (nm)	715	720	760	780	800	830	850	1000
Density (g/cm <sup>2</sup> )	2.76	2.86	2.84	2.94	2.85	2.94	2.93	2.73
Diameter (mm)	50							
Substrate	Colored Glass							
Pass band Limit 1 $\lambda_{p1}$ (nm)	810	750	800	900	850	950	1200	1300
Spectral Transmittance tip (%)	96	93	94	97	96	97	97	90
Stop band Limit $\lambda_s$ (nm)	620	648	700	610	740	670	700	730
Surface Quality	80-50	80-50	80-50	80-50	80-50	80-50	80-50	80-50
Transformation Temp. (OC)	532	525	495	552	495	554	554	476
Thickness (mm)	3	2.5	2.5	3	2.5	3	3	3
Wavelength	Infra Red							
Dimensional Tolerance (mm)	0.38	0.25	0.25	0.38	0.25	0.38	0.38	0.38
Reflection Factor Pd:	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.92
RoHS	Compliant							



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**LONG PASS FILTERS GENERAL CURVE**



**Technical Information**

$\lambda_s$	limit of stopband: specified at 0.001% internal transmittance
$\lambda_c$	cut-off position: specified at 50% internal transmittance
$\lambda_p$	limit of the passband
$t_p$	internal spectral transmittance at $\lambda_p$
$\rho$	density
$T_g$	transformation temperature