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Standard Optical Filters: Wide Band & Uncoated

Window / Filter Description	Filter ID	Band Pass Wavelength	Typical Peak Trans-mission	Typical Average Trans-mission	Thick-ness (inches)	Window availability by detector package						
						MICRO-TO .080" SQ.	TO-18 .100" SQ.	TO-5, LCC .197" SQ.	TO-8 Ø.250" hole .315" SQ.	TO-8 Ø.437" hole Ø.500"	SLA32 .315" x .591"	SA32x 32 .787" SQ.
Sapphire	U1	0.1 - 7.0µm	90%	85%	.020 - .049		✔ [3]	✔	✔ [3]	✔		
UV Quartz[5]	U2	0.15 - 2.7µm	90%	85%	.039			✔	✔		✔	
		2.7 - 4.0µm	55%	45%								
B_aF_2 (Barium Fluoride)[5]	U3	0.2 - 17.5µm	91%	91%	.039			✔	✔			
KBr (Potassium Bromide)*[5]	U4	0.2 - 30µm	90%	90%	~.040		✔	✔	✔			
ZnSe (Zinc Selenide)[5]	U6	0.58 - 22µm	70%	68%	.039	✔	✔	✔	✔			
KRS-5[5]	U5	0.58 - 50µm	71%	68%	.039			✔	✔		✔	
IRTRAN-2 (Zinc Sulfide)	W2	1.0 - 15µm	75%	68%	.039			✔				
A-R coated Si (Anti-Reflection)	W4	1.1 - 20µm	92%	70%	.020		✔	✔	✔	✔		
Uncoated Si	U7	1.1 – 9.0µm 9.0 - 300µm	50% 20%	40% 10%	.020			✔	✔			
C_aF_2 (Calcium Fluoride)[5]	U8	1.5 - 12.5µm	91%	91%	.020 (TO-18), .039		✔	✔	✔			
Uncoated Ge	U9	1.8 - 30µm	45%	45%	.039			✔	✔			
Diffractive Lens (DC-6132) 4.4mm F.L. A-R coated	A1	2.0 - 14µm	90%	See data sheet	.0265		✔	✔ [3]				
A-R coated Ge (Anti-Reflection)	W6	2.0 - 22µm	92%	69%	.039			✔			✔	
5µm cut-on LWP Si (Long Wave Pass Silicon)	L1	5.0 - 20µm	≥70%	60%	.020	✔ [1]	✔	✔				
6.5µm cut-on LWP Si	L2	6.5 - 20µm	90%	70% 7.5-14µm	.020	✔	✔	✔	✔		✔	✔
6.0µm LWP Ge	L3	6.0 - 30µm	94%	70%	.039			✔				
6.5µm LWP Ge	L4	6.5 - 30µm	94%	70%	.039			✔	✔			
8-14µm Si 1%	W1	8.0 - 14.0µm	90%	83%	.020			✔ [3,4]				
8-14µm Si 3%	W3	8.0 - 14.0µm	90%	≥75%	.020			✔ [3,4]				
8-14µm Si 5%	W5	8.0 - 14.0µm	90%	≥75%	.020		✔	✔	✔			
8-14µm Ge 2%	W7	8.0 - 14.0µm	92%	75%	.039			✔	✔			

Please call for specific needs if not listed. ✔ = Normally stocked, please call for availability.

Note: Typical Peak and Average Transmission shown are estimates, only to be used as an indication of relative performance.

*KBr is Hygroscopic and will dissolve in water. Not recommended.

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Gas Filter Detector Availability

Filter Description	Filter ID	Old P/N	Center Wave Length	HBW	Thick-ness (inches)	ST60 DUAL, ST60 QUAD, ST120 QUAD .090" SQ.	TO-18 .100" SQ.	DR34 .079" x .158"	ST120 DUAL, ST150 DUAL, ST150 QUAD .126" SQ.	DR46 .084" x .224"	TM34 .079" x .158"	T34 Compensated .156" x .165"	2M QUAD, T0-5 w/ .125" hole .162" SQ.	TO-5 Single Element w/ .150" / .180" hole, LCC .197" SQ.	10 CHANNEL .050" x .150"
REF (Reference)	R3	F3000	3.000µm	.090µm	.020			✔			✔				
C_2H_2 (Acetylene)	M1	F3040	3.040µm	.087µm	.020							✔	✔ 3		
CH_4 (Methane)	M2	F3357	3.357µm	.102µm	.020				✔ 1			✔	✔ 1,3		
HC (Hydro Carbon)	H2		3.390µm	.190µm	.020	✔	✔ 1,3		✔				✔	✔	
HC (Hydro Carbon)**	H1	FHC1	3.430µm	.200µm	.039	✔	✔ 1,3		✔				✔		
HC (Hydro Carbon)	H3	F3455	3.455µm	.185µm	.039					✔				✔	
C_2H_6O (Ethanol)	M3	FETH	3.460µm	.175µm	.020			✔			✔	✔ 1,2,3			
REF (Reference)**	R1	FREF1	3.875µm	.130µm	.039	✔	✔ 1,3		✔				✔		
REF (Reference)	R2	FREF2	3.920µm	.110µm	.020	✔	✔ 1,3		✔				✔	✔	
REF (Reference)	R4		3.950µm	.090µm	.021	✔ 1,3		✔	✔					✔	
CO_2 (Carbon Dioxide)	D3	F426	4.260µm	.200µm	.020									✔	
CO_2 (Carbon Dioxide)	D2	FCO22	4.260µm	.180µm	.020	✔	✔ 1,3		✔				✔ 1	✔	
CO_2 (Carbon Dioxide)	D7	FCO2	4.262µm	.209µm	.020							✔			
CO_2 (Carbon Dioxide)	D4	F4270	4.270µm	.190µm	.039	✔	✔ 1,3		✔	✔		✔ 1	✔ 1,3	✔	
CO_2 (Carbon Dioxide)	D5	F4395	4.395µm	.050µm	.039				✔					✔	
CO_2 (Carbon Dioxide)**	D1	FCO21	4.415µm	.060µm	.039	✔	✔ 1,3		✔				✔		
CO_2 (Carbon Dioxide)	D6		4.440µm	.100µm	.020	✔	✔ 1,3		✔				✔	✔ 3,4	
N_2O (Nitrous Oxide)	M4	FN2O	4.5527µm	.290µm	.020							✔	✔ 1,3		
CO (Carbon Monoxide)**	C1	FCO1	4.650µm	.160µm	.039	✔	✔ 1,3		✔				✔		
CO (Carbon Monoxide)	C2		4.650µm	.180µm	.020	✔	✔ 1,3		✔				✔	✔	
CO (Carbon Monoxide)	C3	F4660	4.660µm	.220µm	.039					✔				✔	

Please call for other available filters. **Standard Automotive Gas Analysis Filters

1. Currently available for limited R&D samples. Additional fees may apply.
2. T34 Compensated channel C only.
3. Not the size stated but will fit package for R&D prototypes.
4. Not in stock for LLC.
5. When used as detector windows, ambient temperature can not exceed 95℃.

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