



Standard Optical Filters: Wide Band & Uncoated

Window / Filter Description	Filter ID	Band Pass Wavelength	Typical Peak Transmission	Typical Average Transmission	Thick-ness (inches)	Window availability by detector package						
						MICRO-TO	TO-18	TO-5, LCC	TO-8 ∅.250" hole ∅.280" hole	TO-8 ∅.437" hole	SLA32	SA32X 32
						.080" SQ.	.100" SQ.	.197" SQ.	.315" SQ.	∅.500"	.315" x .591"	.787" SQ.
Sapphire	U1	0.1 - 7.0μm	90%	85%	.020 - .049		✓ ³	✓	✓ ³	✓		
UV Quartz ⁵	U2	0.15 - 2.6μm & 2.75 - 4.8μm	85%	70%	.039			✓	✓		✓	
B _a F 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 _a F ₂ (Calcium Fluoride) ⁵	U8	1.5 - 12.5μm	91%	91%	.020 (TO-18), .039		✓	✓	✓			
Uncoated Ge	U9	1.8 - 30μm	45%	45%	.039			✓	✓			
Diffraction 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.

INVENTORY SUBJECT TO CHANGE WITHOUT NOTICE.



Gas Filter Detector Availability

Filter Description	Filter ID	Old P/N	Center Wave Length	HBW	Thick-ness (inches)	ST60 DUAL, ST60 QUAD, ST120 QUAD	TO-18	DR34	ST120 DUAL, ST150 DUAL, ST150 QUAD	DR46	TM34	T34 Compensated	2M QUAD, TO-5 w/.125" hole	TO-5 Single Element w/.150" / .180" hole, LCC	10 CHANNEL
						.090" SQ.	100" SQ.	.079" x .158"	.126" SQ.	.084" x .224"	.079" x .158"	.156" x .165"	.162" SQ.	.197" SQ.	.050" x .150"
REF (Reference)	R3	F3000	3.000µm	.090µm	.020			✓			✓				
C ₂ H 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 ₂ H ₆ O (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 ₂ O (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°C.

INVENTORY SUBJECT TO CHANGE WITHOUT NOTICE.