

# DEXTER RESEARCH CENTER, INC.

## Standard Optical Windows: Wide Band Pass

Window / Filter Description	Band Pass Wavelength	Window availability by package size				
		TO-18	TO-5	TO-8	HC-40 (6M)	SLA32
Sapphire	0.1 – 7.0 $\mu$ m	✓	✓	✓	✓	
UV Quartz	0.15 – 4.8 $\mu$ m		✓	✓	✓	✓
B <sub>a</sub> F <sub>2</sub> (Barium Fluoride)	0.2 - 11 $\mu$ m		✓	✓		
KBr (Potassium Bromide)	0.2 – 30 $\mu$ m	✓	✓	✓	✓	
ZnSe (Zinc Selenide)	0.58 - 22 $\mu$ m	✓	✓	✓	✓	
KRS-5	0.58 - 50 $\mu$ m		✓	✓		✓
IRTRAN-2	1.0 - 15 $\mu$ m		✓			
A-R coated Si (Anti-Reflection)	1.1 - 20 $\mu$ m	✓	✓	✓	✓	
Uncoated Si	1.1 - 300 $\mu$ m		✓	✓		
C <sub>a</sub> F <sub>2</sub> (Calcium Fluoride)	1.5 - 10 $\mu$ m	✓	✓	✓		
Uncoated Ge	1.8 - 30 $\mu$ m		✓	✓		
A-R coated Ge (Anti-Reflection)	2.0 - 22 $\mu$ m		✓			✓
5 $\mu$ m cut-on LWP Si (Long Wave Pass Silicon)	5.0-20 $\mu$ m; LW T $\geq$ 50%	✓	✓			
6.5 $\mu$ m cut-on LWP Si	6.5-20 $\mu$ m; LW T $\geq$ 50%	✓	✓	✓	✓	✓
6.5 $\mu$ m LWP Ge	6.5 - 30 $\mu$ m		✓	✓		
Diffractive Lens (A2DIF01)	7 - 14 $\mu$ m, T $\geq$ 70%	✓	✓			
8-14 $\mu$ m Si	8.0 – 14.0 $\mu$ m	✓	✓	✓	✓	
8-14 $\mu$ m Ge	8.0 – 14.0 $\mu$ m		✓	✓		

**Please call for specific needs if not listed.**

✓ = Normally stocked, please call for availability.

INVENTORY SUBJECT TO CHANGE WITHOUT NOTICE. Revised: 8/31/04

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# DEXTER RESEARCH CENTER, INC.

## Standard Gas Analysis Filters: Narrow Band Pass

Filter Description	Center Wave Length	FWHPBW	Part Number	Filter Size-Detector Availability (Call for special order sizes)
REF (Reference)	3.000 $\mu$ m	.090 $\mu$ m	F3000	DR34
C <sub>2</sub> H <sub>2</sub> (Acetylene)	3.040 $\mu$ m	.087 $\mu$ m	F3040	TO-5 package w/.125" Hole, T34, 2M Quad
CH <sub>4</sub> (Methane)	3.357 $\mu$ m	.102 $\mu$ m	F3357	TO-5 package w/.125" Hole, T34, 2M Quad
HC (Hydro Carbon)	3.430 $\mu$ m	.200 $\mu$ m	*FHC1; *FHC1A	TO-5 package w/.125" Hole, 2M Quad; TO-18 package, ST60 Dual/Quad
HC (Hydro Carbon)	3.455 $\mu$ m	.185 $\mu$ m	F3455; F3455C	TO-5 packages; DR46
C <sub>2</sub> H <sub>6</sub> O (Ethanol)	3.4600 $\mu$ m	.1750 $\mu$ m	FETH	T34
REF (Reference)	3.875 $\mu$ m	.130 $\mu$ m	*FREF1; *FREF1A	TO-5 package w/.125" Hole, 2M Quad; TO-18 package, ST60 Dual/Quad
REF (Reference)	3.950 $\mu$ m	.090 $\mu$ m	F395	DR34
CO <sub>2</sub> (Carbon Dioxide)	4.260 $\mu$ m	.200 $\mu$ m	F426	TO-5 packages
CO <sub>2</sub> (Carbon Dioxide)	4.270 $\mu$ m	.190 $\mu$ m	F4270; F4270A; F4270B	TO-5 packages; DR46; ST60 Dual/Quad; ST150 Dual/Quad
CO <sub>2</sub> (Carbon Dioxide)	4.395 $\mu$ m	.050 $\mu$ m	F4395; F4395C	TO-5 packages; DR46
CO <sub>2</sub> (Carbon Dioxide)	4.415 $\mu$ m	.060 $\mu$ m	*FCO21; *FCO21A	TO-5 package w/.125" Hole, 2M Quad; TO-18 package, ST60 Dual/Quad
N <sub>2</sub> O (Nitrous Oxide)	4.55 $\mu$ m	.29 $\mu$ m	FN20	TO-5 package w/.125" Hole, T34, 2M Quad
CO (Carbon Monoxide)	4.650 $\mu$ m	.160 $\mu$ m	*FCO1; *FCO1A	TO-5 package w/.125" Hole, 2M Quad; TO-18 package, ST60 Dual/Quad
CO (Carbon Monoxide)	4.660 $\mu$ m	.220 $\mu$ m	F4660; F4660C	TO-5 packages; DR46

**Please call for other available filters.**

\*Standard Automotive Gas Analysis Filters

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