Finding What You Need

Below are some guidelines as to how best to find a filter or coating that meets your specific need. The most significant characters in the SKU are the 2nd through 5th characters. These define the prominent wavelengths, whether a band center, edge, or some other feature.

The following characters define the general category of the product and fall between the 6th and 8th characters

- NB is a band pass filter of two Fabry-Perot (FP) interfering cavities and the band shape will follow the performance detailed in Table 1, Column 2
 - These coatings are typically available from the UVB to NIR regions
 - Typical FWHM is 0.001 to 0.020 times the CWL
 - Typical out of band average attenuation is 4.0 OD
- SC is a band pass filter of a single FB cavity. These are typically very narrow passbands with shape characteristics in Table 1, Column 1
 - These coatings are typically available in the Vis to NIR
 - Typical FWHM is 0.0002 to 0.01 times the CWL
 - Typical out of band attenuation is OD 3.0 to 4.0
 - These filters are used with atomic line emission
- BP is a band pass filter of three interfering cavities. The band shape will be found in Table 1, Column 3
 - These coatings are typically available from the DUV to MIR,
 - Typical FWHM is 0.001 to 0.01 times the CWL
 - Typical out of band blocking is OD 4.0 to 5.0
 - These filters are the most common category
- WB is a band pass of 5 interfering cavities. The band shape is defined in Table 1, Column 5
 - These coatings are typically available from the DUV to MIR,
 - Typical FWHM is 0.001 to 0.01 times the CWL,
 - Typical out of band blocking is OD 4.0 to 5.0

- These filters are the most common category
- DF is a band pass of 6 or more interfering cavities and has a shape defined in Table 1, Column 6
 - These coatings are available in the vis and NIR,
 - Typical FWHM is 0.03 to 0.2 times the CWL,
 - Typical out of band blocking is OD 6.0 to OD 7.0,
 - These filters are commonly used for Fluorescence emission bands

Table 1

Transmission	The factors below, when multiplied by the nominal HBW, will give the bandwidth at the indicated level of transmission.						
	SC Series 1 Cavity	NB Series 2 Cavity	BP Series 3 Cavity	WB S 4 Cavity	Series 5 Cavity	DF Series 6 Cavity	
0.08	0.43	0.65	0.83	0.92	0.96	0.96	
Half peak	1.00	1.00	1.00	1.00	1.00	1.00	
10-1	1.2	1.7	1.4	1.2	1.1	1.1	
10-2	3.3	3.2	2.0	1.5	1.4	1.2	
10-3	9.6	5.6	3.0	2.1	1.6	1.4	
10-4	33	11	4.5	3.7	2.0	1.7	
10-5	-	-		-		1.8	
10-6	-	7	-			3.2	

- CF is a long pass or short pass filter of moderate slope. The value of slope is typically 2% from 80% T to 90% R
- AF is a band pass filter that is defined by a sharp cut-on and cut-off filter. Typical edges are a few percent from OD 0.3 to OD 5.0+
- SP is a Short-Pass edge filter
- LP is a Long-Pass edge filter
- HSP is a Sputtered Short-Pass filter
- HLP is a sputtered Long-Pass filter
- HBP is a sputtered band pass filter
- Dichroic-LP is a Long-Pass filter intended for non -normal incidence, usually 45 degrees
- Dichroic-SP is a Short-Pass filter intended for use at non-normal incidence, usually 45 degrees

