

Neutral Density Filters

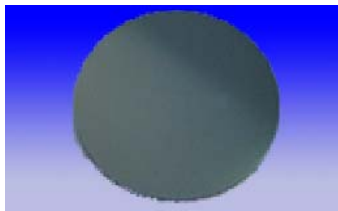
Product Description:

They are two types of neutral density filters. One is made from neutral density glass which uniformly attenuates optical radiation in specific spectral regions. The attenuation results from the absorption. The other is made from metallic coating on a glass substrate. The metallic neutral density coatings provide broadband attenuation for lower power applications. The second polished side is uncoated.

Optical Density: OD

Transmittance: T

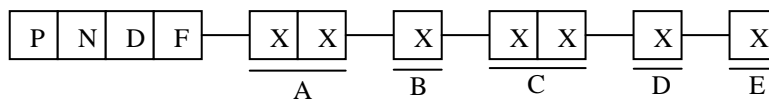
OD=log(1/T)



Specifications (Neutral Density Glass type and Metallic Coating Type):

Dimensional Tolerance	$\pm 0.2\text{mm}$
Parallelism	<3 arc minutes
Clear Aperture	>80%
Flatness	$2\lambda @ 632.8\text{nm}$
Surface Quality	80~50
Wavefront Distortion	$2\lambda @ 632.8\text{nm}$
Coating	Uncoated

Ordering Information:



A	Transmission	01=0.1(OD) (T=79.4%)
		02=0.2(OD) (T=63.1%)
		03=0.3(OD) (T=50.1%)
		04=0.5(OD) (T=31.6%)
		05=0.8(OD) (T=15.8%)
		05=1.0(OD) (T=10.0%)
		06=2.0(OD) (T=1.0%)
		07=3.0(OD) (T=0.1%)
		00=Special
B	Material	1=Optical Neutral Density Glass
		2=Metallic Coating on BK7 Glass
C	Dimensions	Check the Standard Size Table (Below)
		00=Custom Size
D	Shape	1=Circular
		2=Rectangular
E	Mount	1=Yes
		0=No

Standard Size Table (Neutral Density Glass Type):

Dimensions P/N	Optical Density (OD)	Thickness (mm)	Diameter (Circular) (mm)	Length & Width (Rectangular) (mm)
01	0.1	1.35	25.0	50X50
02	0.2	3.44	25.0	50X50
03	0.3	2.40	25.0	50X50
04	0.4	3.31	25.0	50X50
05	0.5	1.84	25.0	50X50
06	0.8	3.03	25.0	50X50
07	1.0	2.05	25.0	50X50
08	2.0	4.19	25.0	50X50
09	3.0	1.50	25.0	50X50

Standard Size Table (Metallic Coating Type):

Dimensions P/N	Diameter (Circular) (mm)	Length & Width (Rectangular) (mm)	Thickness (mm)
01	25.0	50.0X50.0	2.0