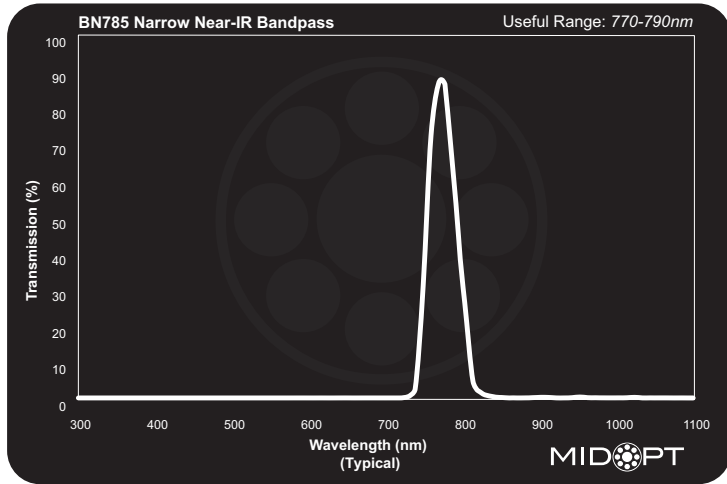
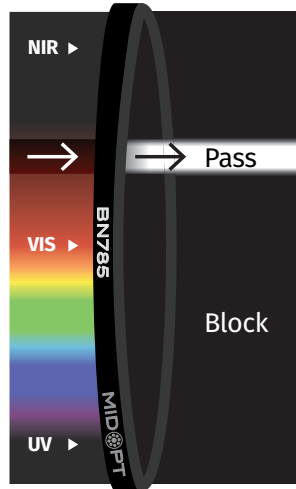


# BN785 NARROW NEAR-IR BANDPASS

WWW.MIDOPT.COM  
INFO@MIDOPT.COM



A BN785 filter is suitable for use with 780-785nm IR illumination wavelengths, including LED and laser diode lighting, the narrow band design is ideal for use when ambient light conditions can be overwhelming. Commonly used in traffic control, security and license plate recognition applications.



Useful Range: 770-790nm

FWHM: 55nm

Peak Transmission: ≥85%

Surface Quality: 40/20

StableEDGE™

## FILTER MOUNT & SIZE OPTIONS

### Threaded Mount



For lenses with filter threads; Mount Sizes M13.25 - M105

Part #	Thread Dia x Pitch	Part #	Thread Dia x Pitch
BN785-13.25	M13.25 x P0.5	BN785-46	M46 x P0.75
BN785-22.5	M22.5 x P0.5	BN785-48	M48 x P0.75
BN785-25.4	M25.4 x P32TPI	BN785-49	M49 x P0.75
BN785-25.5	M25.5 x P0.5	BN785-52	M52 x P0.75
BN785-27	M27 x P0.5	BN785-55	M55 x P0.75
BN785-30.5	M30.5 x P0.5	BN785-58	M58 x P0.75
BN785-34	M34 x P0.5	BN785-62	M62 x P0.75
BN785-35.5	M35.5 x P0.5	BN785-67	M67 x P0.75
BN785-37	M37 x P0.75	BN785-72	M72 x P0.75
BN785-37.5	M37.5 x P0.5	BN785-77	M77 x P0.75
BN785-39	M39 x P0.5	BN785-82	M82 x P0.75
BN785-40.5	M40.5 x P0.5	BN785-86	M86 x P1.0
BN785-43	M43 x P0.75	BN785-95	M95 x P1.0
		BN785-105	M105 x P1.0

### 25.4™ C-Mount



Threads between lens and sensor

Part #: BN785-25.4

### Slip Mount



- Designed for lenses without filter threads, varifocal and wide-angle lenses
- Includes locking set screws to secure adapter to lens

#### Create Part #

Use "S" and add the outside diameter of lens in mm (ex: 43mm)

Example: BN785-S43

### Unmounted

Custom shapes & sizes available

#### Create Part #

CIRCLE: Use "D" and add diameter in mm (ex: 19mm)

Example: BN785-D19

RECTANGLE: Use "R" and add length in mm (ex: 30mm) x width in mm (ex: 15mm)

Example: BN785-R30x15

SQUARE: Use "R" and add side measurement in mm (ex: 15mm)

Example: BN785-R15

## BN785 DATA POINTS (TYPICAL)

Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)
1100	0.43	910	0.09	720	0.68	530	0.00
1090	0.31	900	0.11	710	0.12	520	0.00
1080	0.28	890	0.14	700	0.03	510	0.00
1070	0.35	880	0.17	690	0.01	500	0.00
1060	0.48	870	0.22	680	0.00	490	0.00
1050	0.51	860	0.36	670	0.00	480	0.00
1040	0.36	850	0.61	660	0.00	470	0.00
1030	0.17	840	0.81	650	0.00	460	0.00
1020	0.10	830	1.31	640	0.00	450	0.00
1010	0.10	820	3.38	630	0.01	440	0.00
1000	0.21	810	12.56	620	0.00	430	0.01
990	0.38	800	36.51	610	0.00	420	0.01
980	0.36	790	73.32	600	0.00	410	0.00
970	0.16	780	89.59	590	0.00	400	0.00
960	0.04	770	78.19	580	0.00	390	0.00
950	0.03	760	59.99	570	0.00	380	0.00
940	0.04	750	35.67	560	0.00	370	0.00
930	0.06	740	14.01	550	0.00	360	0.00
920	0.07	730	3.63	540	0.00	350	0.01

\*Due to continuous product improvement, specifications are subject to change without notice. For the most up-to-date information visit [www.midopt.com](http://www.midopt.com)