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TECHSPEC® $\lambda/4$ N-BK7 Laser Line Windows See More by [SCHOTT Optical Components](#)

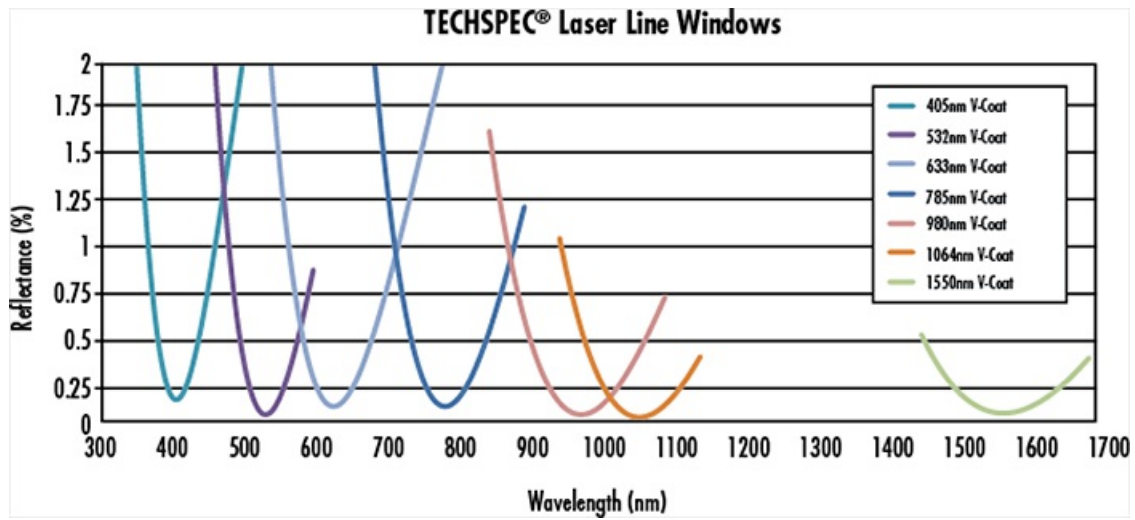


- <0.25% Reflection at Design Wavelength
- Coatings Available for HeNe, Diode, and Nd:YAG Laser Sources
- Precision N-BK7 Substrate
- Also Available [Uncoated](#), [MgF₂ Coated](#) and [VIS 0° Coated](#)

Common Specifications

Physical & Mechanical Properties			
Parallelism (arcmin):	≤1	Bevel:	Protective as needed
Clear Aperture (%):	90	Edges:	Fine Ground
Poisson's Ratio:	0.21	Young's Modulus (GPa):	82
Knoop Hardness (kg/mm ²):	610.00		
Optical Properties			
Substrate:	N-BK7		
Index of Refraction (n _d):	1.516	Surface Quality:	60-40
Abbe Number (v _d):	64.17	Surface Flatness (P-V):	λ/4
Material Properties			
Density (g/cm ³):	2.51	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	7.1 (-30 to +70°C) 8.3 (+20 to +300°C)

Technical Information



Products

Coating	Dia. (mm)	Thickness (mm)	DWL (nm)	Stock Number	Price	Buy
Laser V-Coat (405nm)	5.00	2.00	405	#64-035	£76.17 Volume Pricing	11 In Stock
Laser V-Coat (532nm)	5.00	2.00	532	#49-125	£76.17 Volume Pricing	11 In Stock
Laser V-Coat (633nm)	5.00	2.00	633	#49-135	£76.17 Volume Pricing	Contact Us
Laser V-Coat (785nm)	5.00	2.00	785	#64-045	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (980nm)	5.00	2.00	980	#83-515	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (1064nm)	5.00	2.00	1064	#49-145	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	5.00	2.00	1550	#83-525	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (405nm)	9.00	2.00	405	#64-036	£76.17 Volume Pricing	9 In Stock
Laser V-Coat (532nm)	9.00	2.00	532	#49-126	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (633nm)	9.00	2.00	633	#49-136	£76.17 Volume Pricing	2 In Stock
Laser V-Coat (785nm)	9.00	2.00	785	#64-046	£76.17 Volume Pricing	14 In Stock
Laser V-Coat (980nm)	9.00	2.00	980	#83-516	£76.17 Volume Pricing	2 In Stock
Laser V-Coat (1064nm)	9.00	2.00	1064	#49-146	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	9.00	2.00	1550	#83-526	£76.17 Volume Pricing	11 In Stock
Laser V-Coat (405nm)	10.00	2.00	405	#64-037	£76.17 Volume Pricing	14 In Stock
Laser V-Coat (532nm)	10.00	2.00	532	#49-127	£76.17 Volume Pricing	13 In Stock

Laser V-Coat (633nm)	10.00	2.00	633	#49-137	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (785nm)	10.00	2.00	785	#64-047	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (980nm)	10.00	2.00	980	#83-517	£76.17 Volume Pricing	14 In Stock
Laser V-Coat (1064nm)	10.00	2.00	1064	#49-147	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	10.00	2.00	1550	#83-527	£76.17 Volume Pricing	14 In Stock
Laser V-Coat (405nm)	12.50	3.00	405	#64-038	£76.17 Volume Pricing	2 In Stock
Laser V-Coat (532nm)	12.50	3.00	532	#49-128	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (633nm)	12.50	3.00	633	#49-138	£76.17 Volume Pricing	4 In Stock
Laser V-Coat (785nm)	12.50	3.00	785	#64-048	£76.17 Volume Pricing	14 In Stock
Laser V-Coat (980nm)	12.50	3.00	980	#83-518	£76.17 Volume Pricing	5 In Stock
Laser V-Coat (1064nm)	12.50	3.00	1064	#49-148	£76.17 Volume Pricing	4 In Stock
Laser V-Coat (1550nm)	12.50	3.00	1550	#83-528	£76.17 Volume Pricing	20+ In Stock
Laser V-Coat (405nm)	15.00	3.00	405	#64-039	£77.48 Volume Pricing	7 In Stock
Laser V-Coat (532nm)	15.00	3.00	532	#49-129	£77.48 Volume Pricing	20+ In Stock
Laser V-Coat (633nm)	15.00	3.00	633	#49-139	£77.48 Volume Pricing	20+ In Stock
Laser V-Coat (785nm)	15.00	3.00	785	#64-049	£77.48 Volume Pricing	9 In Stock
Laser V-Coat (980nm)	15.00	3.00	980	#83-519	£77.48 Volume Pricing	7 In Stock
Laser V-Coat (1064nm)	15.00	3.00	1064	#49-149	£77.48 Volume Pricing	5 In Stock
Laser V-Coat (1550nm)	15.00	3.00	1550	#83-529	£77.48 Volume Pricing	20+ In Stock

Laser V-Coat (405nm)	20.00	3.00	405	#64-040	£81.85 Volume Pricing	16 In Stock
Laser V-Coat (532nm)	20.00	3.00	532	#49-130	£81.85 Volume Pricing	Contact Us
Laser V-Coat (633nm)	20.00	3.00	633	#49-140	£81.85 Volume Pricing	20+ In Stock
Laser V-Coat (785nm)	20.00	3.00	785	#64-050	£81.85 Volume Pricing	20+ In Stock
Laser V-Coat (980nm)	20.00	3.00	980	#83-520	£81.85 Volume Pricing	14 In Stock
Laser V-Coat (1064nm)	20.00	3.00	1064	#49-150	£81.85 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	20.00	3.00	1550	#83-530	£81.85 Volume Pricing	20+ In Stock
Laser V-Coat (405nm)	25.00	4.00	405	#64-041	£89.30 Volume Pricing	8 In Stock
Laser V-Coat (532nm)	25.00	4.00	532	#49-131	£89.30 Volume Pricing	20+ In Stock
Laser V-Coat (633nm)	25.00	4.00	633	#49-141	£89.30 Volume Pricing	5 In Stock
Laser V-Coat (785nm)	25.00	4.00	785	#64-051	£89.30 Volume Pricing	20+ In Stock
Laser V-Coat (980nm)	25.00	4.00	980	#83-521	£89.30 Volume Pricing	20+ In Stock
Laser V-Coat (1064nm)	25.00	4.00	1064	#49-151	£89.30 Volume Pricing	9 In Stock
Laser V-Coat (1550nm)	25.00	4.00	1550	#83-531	£89.30 Volume Pricing	4 In Stock
Laser V-Coat (405nm)	30.00	4.00	405	#64-042	£91.93 Volume Pricing	15 In Stock
Laser V-Coat (532nm)	30.00	4.00	532	#49-132	£91.93 Volume Pricing	Contact Us
Laser V-Coat (633nm)	30.00	4.00	633	#49-142	£91.93 Volume Pricing	20+ In Stock
Laser V-Coat (785nm)	30.00	4.00	785	#64-052	£91.93 Volume Pricing	20+ In Stock
Laser V-Coat (980nm)	30.00	4.00	980	#83-522	£91.93 Volume Pricing	9 In Stock

Laser V-Coat (1064nm)	30.00	4.00	1064	#49-152	£91.93 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	30.00	4.00	1550	#83-532	£91.93 Volume Pricing	11 In Stock
Laser V-Coat (405nm)	40.00	4.00	405	#64-043	£104.18 Volume Pricing	6 In Stock
Laser V-Coat (532nm)	40.00	4.00	532	#49-133	£104.18 Volume Pricing	12 In Stock
Laser V-Coat (633nm)	40.00	4.00	633	#49-143	£104.18 Volume Pricing	14 In Stock
Laser V-Coat (785nm)	40.00	4.00	785	#64-053	£104.18 Volume Pricing	8 In Stock
Laser V-Coat (980nm)	40.00	4.00	980	#83-523	£104.18 Volume Pricing	14 In Stock
Laser V-Coat (1064nm)	40.00	4.00	1064	#49-153	£104.18 Volume Pricing	20+ In Stock
Laser V-Coat (1550nm)	40.00	4.00	1550	#83-533	£104.18 Volume Pricing	12 In Stock
Laser V-Coat (405nm)	50.00	4.00	405	#64-044	£107.69 Volume Pricing	Contact Us
Laser V-Coat (532nm)	50.00	4.00	532	#49-134	£107.69 Volume Pricing	13 In Stock
Laser V-Coat (633nm)	50.00	4.00	633	#49-144	£107.69 Volume Pricing	3 In Stock
Laser V-Coat (785nm)	50.00	4.00	785	#64-054	£107.69 Volume Pricing	5 In Stock
Laser V-Coat (980nm)	50.00	4.00	980	#83-524	£107.69 Volume Pricing	20+ In Stock
Laser V-Coat (1064nm)	50.00	4.00	1064	#49-154	£107.69 Volume Pricing	10 In Stock
Laser V-Coat (1550nm)	50.00	4.00	1550	#83-534	£107.69 Volume Pricing	Contact Us



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