

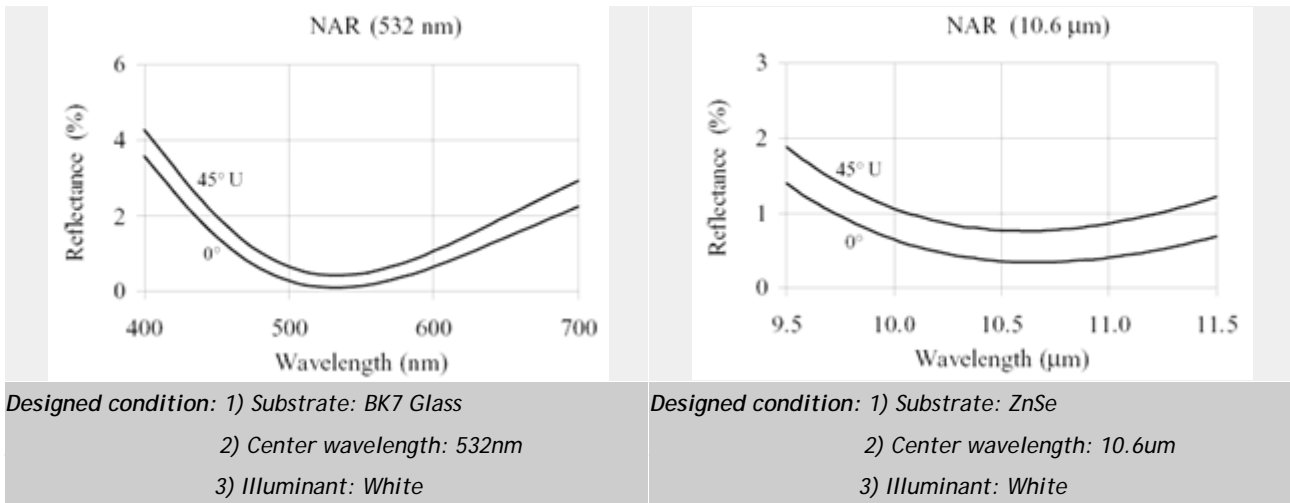
Multilayer Anti-Reflective Coatings(Part No: VAR)

Multilayer antireflective coatings can reach the lowest reflectivity at a center wavelength. It is often applied to single laser wavelength or multiple, closely-spaced wavelength system to guarantee the lowest loss for center wavelength. Ultiquest Tech can provide such coating with center wavelength from 250nm to 2200nm. When selecting a suitable multilayer antireflective coating, the center wavelength and damage threshold must be considered.

For your application, please refer to its following characteristics:

- Multi-layer AR can reduce the remaining reflectance to less than half of a single layer AR.
- Essentially the effective wavelength range is narrow, but it could be broadened by choosing appropriate deposition material, number of layers and their thickness.

■ Reflectance Simulation of Single Layer Anti-reflection Coatings



■ Multilayer Anti-reflection Coating Normal Incidence

Wavelength Range (nm)	Maximum Reflectance (%)	Damage Threshold	Coating Index
400	0.5	2 J/cm ² in 10 ns	UQT-VAR001
488	0.5	2 J/cm ² in 10 ns	UQT-VAR002
532	0.3	3 J/cm ² in 10 ns	UQT-VAR003
633	0.3	3 J/cm ² in 10 ns	UQT-VAR004
780	0.3	4 J/cm ² in 10 ns	UQT-VAR005
800	0.3	4 J/cm ² in 10 ns	UQT-VAR006
850	0.3	4 J/cm ² in 10 ns	UQT-VAR007
1064	0.3	4 J/cm ² in 10 ns	UQT-VAR008
1320	0.3	4 J/cm ² in 10 ns	UQT-VAR009
1547	0.6	3 J/cm ² in 10 ns	UQT-VAR010

Please Contact [ultiQuest](http://ultiQuest.com) for more information and technical supports.

NOTES!

- ➔ The values of laser damage threshold are based on actual measurement and not a guaranteed specification.