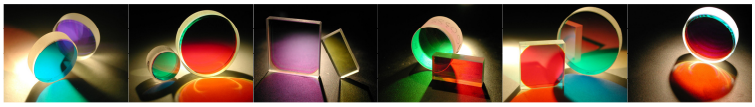


NANEO Precision IBS Coatings GmbH

Technical Data Sheet

Laser Beam Splitter Coatings

BS / Beam Splitter

BSN / Neutral Beam Splitter

BSPP / Phase Polarization Controlled Beam Splitter

BSDC / Dispersion Controlled Beam Splitter

Short Description

NANEO provides various types of laser beam splitters. The division ratio can be made polarization-insensitive e.g. Neutral Beam Splitters (BSN). The phase for both, s and p-polarization, is preserved by phase control in the Phase Polarization Controlled Beam Splitters (BSPP). The Dispersion Controlled Beam Splitters (BSDC) provides group velocity dispersion control.
The Beam Splitters are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves unique layer thickness precision. IBS provides the most dense, low loss, stable and endurable optical coatings among the optical coating technologies.

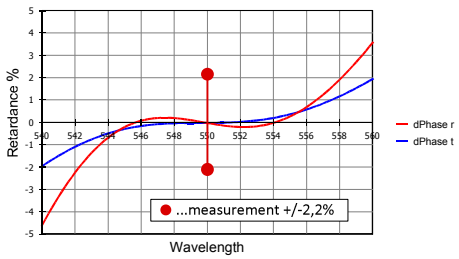
Design Specifications

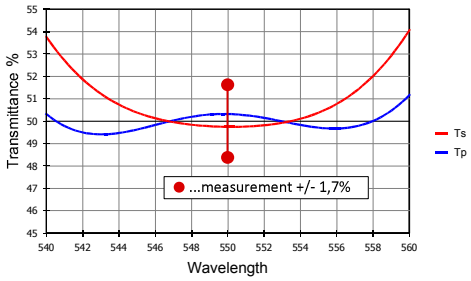
Wavelength:	Range from 400 up to 1500nm
R (Amplitude and Phase):	customized design
T (Amplitude and Phase):	customized design
Dsipersion control:	customized design
Angle of incidence:	certain angle 0 - 45°
Substrates:	customized substrates

Example Design

Type:	BSPP-550-45-SP
Reflection-Amplitude:	Rs = Rp = 50% (±2%) @ 550nm (±5nm)
Reflection-Phase:	ΦRs = ΦRp (±2%)
Transmission-Amplitude:	Ts = Tp = 50% (±2%) @ 550nm (±5nm)
Transmission-Phase:	ΦTs = ΦTp (±2%)
AOI:	45°

customized design





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