



Quartz depolarizers convert linearly polarized input beams into unpolarized beams and are used in front and behind of measurement equipment that must avoid polarization.

- 1N type is made of single optical quartz plate. It has a wider transmission range, but has a larger beam deviation due to the 2 degree wedge shape.
- 2S type consists of cemented plates of optical quartz and synthetic fused silica. It does not have beam deviation, but the transmission range is not as wide as the single type.
- OP type consists of optical contact. It has a wider transmission range without beam deviation.
- It is similar to waveplate and mounted in a frame of $\phi 30\text{mm}$ diameter.

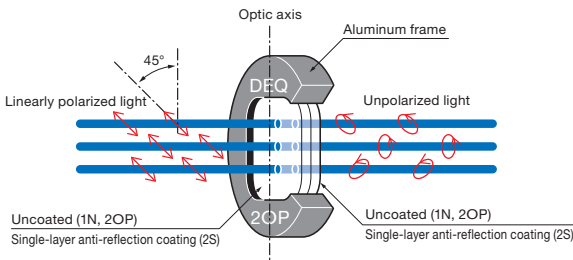


Specifications	
Material	Optical Grade Crystalline Quarts Synthetic fused silica
Material of frame	Aluminum Finishing: Black anodized
Surface Quality (Scratch-Dig)	40-20

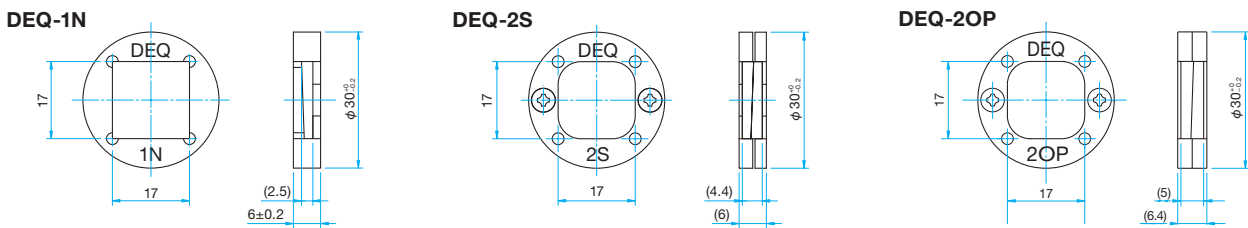
Attention

► Custom Quartz depolarizers are available, contact our Sales Division for products not list on-line or in our catalog.

Schematic



Outline Drawing (in mm)



Specifications				
Part Number	Wavelength Range [nm]	Material	Thickness of Optics [mm]	Laser Damage Threshold* [J/cm ²]
DEQ-1N	180 – 3500	Optical Grade Crystalline Quarts	2.5 (Maximum)	—
DEQ-2S	350 – 2500	Optical Grade Crystalline Quarts Synthetic fused silica	4.4	0.3
DEQ-2OP	180 – 3500	Optical Grade Crystalline Quarts	5.0	1

* Laser pulse width 10ns, repetition frequency 20Hz

Compatible Optic Mounts

PH-30-ARS / SPH-30-ARS

- Application Systems
- Optics & Optical Coatings
- Opto-Mechanics
- Bases
- Manual Stages
- Actuators & Adjusters
- Motoeized Stages
- Light Sources & Laser Safety
- Index
- Guide
- Mirrors
- Beamsplitters
- Polarizers**
- Lenses
- Multi-Element Optics
- Filters
- Prisms
- Substrates/Windows
- Optical Data
- Maintenance
- Selection Guide
- Polarizing Beamsplitters
- Waveplates
- Polarizers