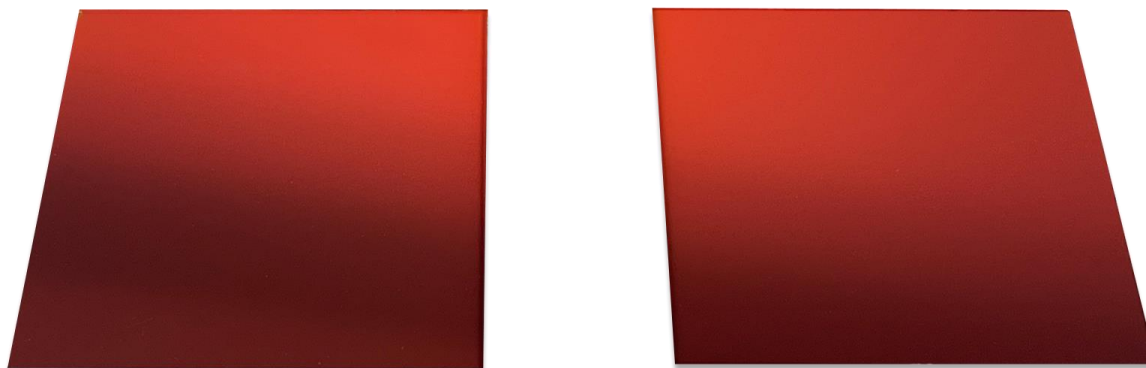


DATACOM HIGH PERFORMANCE WIRE-GRID POLARIZER

P-O-11x11-50-98.5

Wire Grid Polarizers by Coherent are based on advanced meta-optics wires (MOW)™ technology and offer best-in-class extinction ratio and high transmission in telecom O band. They are optimal for use in isolators, datacom transceivers and as a stand-alone component for beam polarization control, beamsplitters, and polarization diversity optics. The device transmits signals polarized with electric field vector perpendicular to the MOW and reflects those with orthogonal polarization with minimal absorptive losses.



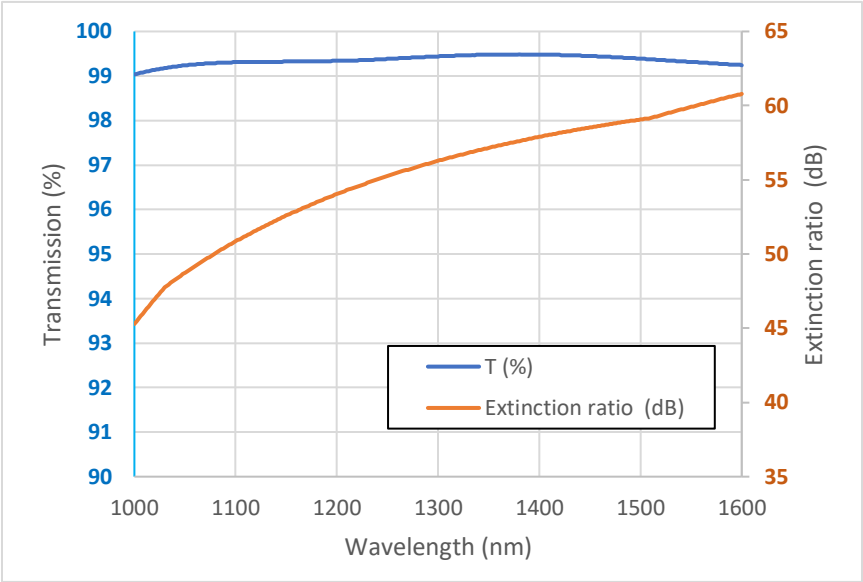
FEATURES

- Best-in-class extinction ratio and transmission
- Excellent environmental reliability through robust inert materials
- Optical performance independent of device thickness –miniaturization
- Enables Form factor superior to bulk optics
- Cost effective wafer level production

APPLICATIONS

- Datacom transceivers
- Datacom polarization diversity optics
- Telcom polarization diversity optics

Parameter	Value	Note
Wavelength range	1275 – 1345 nm	Operates in wider range (see plot)
Contrast (Extinction ratio)	100,000:1 (50 dB) min	
Transmission (Insertion loss)	98.5% (0.06 dB)	Both sides AR coated or index matched
Transmission (Insertion loss)	94.3% (0.26 dB)	One side AR coated
Dimensions	11x11±0.1 mm	Other sizes available by request
Thickness	0.2±0.03 mm	
Construction	Corning EAGLE XG glass substrate, dielectric films, metal meta-optics wires	



Polarizer performance
(simulated data for reference only, both sides AR coated)