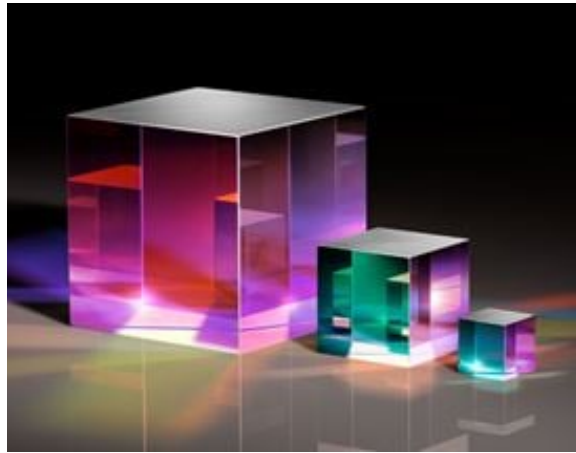


TECHSPEC® 15mm 850nm, Laser Line Polarizing Cube Beamsplitter

#47-049



TECHSPEC Laser Line Polarizing Cube Beamsplitters

다수의 일반 레이저 파장용으로 설계된 TECHSPEC® Laser Line Polarizing Cube Beamsplitters는 무작위로 편광된 빔을 두 개의 직교 선형 편광 요소로 분할합니다. S-편광 빛은 90° 각도로 반사되고, P-편광 빛은 투과됩니다. 각 빔 스플리터는 서로 접합된 한 쌍의 정밀 [right angle prism](#)으로 구성되어, 투과 웨이브프론트 왜곡을 최소화하고 입사 빔과 투과 빔 사이의 탁월한 평행성을 제공합니다.

General

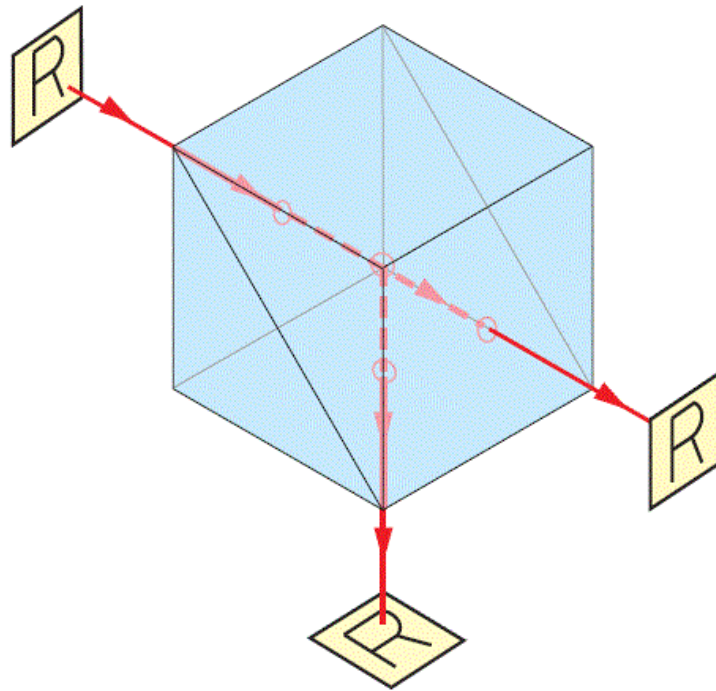
Type: Linear Polarizer

Physical & Mechanical Properties

Bevel:	Protective bevel as needed
Clear Aperture (%):	90.00
Construction:	Cube
Dimensions (mm):	15.0 x 15.0 x 15.0 \pm 0.1

Optical Properties

Beam Deviation (arcmin):	\pm 3
Coating Specification:	$R_{\text{abs}} < 0.25\% @ 850\text{nm}$
Design Wavelength DWL (nm):	850
Extinction Ratio:	1000:1
P-Polarization Transmission (%):	>95
S-Polarization Reflection (%):	>99.5
Substrate:	N-BK7
Surface Quality:	40-20
Power (fringes) @ 632.8nm:	1.25
Irregularity (fringes) @ 632.8nm:	0.25





June 18, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
47-049	15mm 850nm, Laser Line Polarizing Cube Beamsplitter

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
June 18, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



June 18, 2025

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This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
47-049	15mm 850nm, Laser Line Polarizing Cube Beamsplitter

This item does not contain any of the substances listed on the Reach SVHC list as of 8 July 2021 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



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재고 번호

47-049

제품설명

15mm 850nm, Laser Line Polarizing Cube Beamsplitter

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



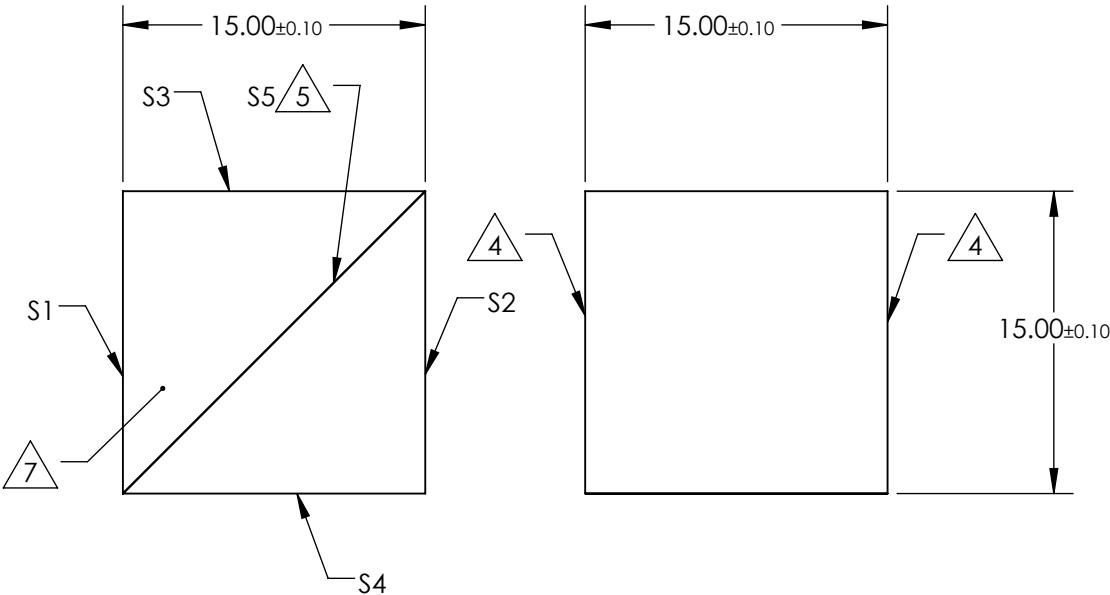
Jeff Harvey- EVP of Operations

NOTES:

- 1. SUBSTRATE MATERIAL:
N-BK7
- 2. BEAM DEVIATION: ± 3 arcmin
- 3. COATING (APPLY ACROSS CLEAR APERTURE)


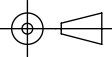
S1, S2, S3 & S4: $R(\text{abs}) < 0.25\%$ @ 850nm
S5: $T_p/T_s > 1000:1$ @ 850nm
TRANSMISSION $> 95\%$
REFLECTION $> 99.5\%$

- 4. FINE GROUND SURFACE
- 5. ELEMENTS TO BE CEMENTED WITH NORLAND OPTICAL ADHESIVE 61
- 6. PROTECTIVE BEVEL AS NEEDED
- 7. MARK IDENTIFIES BEAMSPLITTER COATING RIGHT ANGLE PRISM



**FOR INFORMATION ONLY:
DO NOT MANUFACTURE
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

	S1, S2, S3, S4	S5	 Edmund Optics®			
SHAPE	PLANO	PLANO				
SURFACE FLATNESS	$\lambda/4$	$\lambda/4$				
SURFACE QUALITY	40-20	40-20	TITLE			
CLEAR APERTURE	90	90	15mm, 850nm, LASER LINE POLARIZING CUBE BEAMSPLITTER			
ALL DIMS IN			mm	DWG NO	47049	SHEET 1 OF 1