

Materion Barr Precision Optics & Thin Film Coatings provides a broad array of technologies including complex optical filters, filter arrays, lens coatings and optical thin film component assemblies. Diverse markets are composed of: commercial, defense, life sciences & medical, thermal imaging, and space, science & astronomy industries.

# **Dichrolight**<sup>™</sup>

## The Challenge

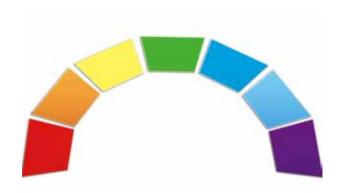
When lighting designers want the latest trends to color fixtures for use in entertainment lighting, architectural lighting and product presentation, they use our Dichrolight™ filters to meet their needs. OEM lighting manufacturers have depended on our filters for more than 20 years. Produced by reliable Materion Barr Precision Optics & Thin Film Coatings e-beam and patented sputtering processes, Dichrolight™ filters are available as full colors or as patterned CMY filters.

#### **Benefits**

- Highly saturated colors
- Non-ageing and fading colors, reducing maintenance costs
- Highest scratch resistance and mechanical stability
- Absorption-free, preventing thermal stress caused by high intensity light sources
- Thermal stability up to 400°C
- Reliable production by our coating processes achieve filters with tight tolerances and high reproductability
- Color range which meets the latest trends
- High volume production capabilities
- No thermal shift in case of sputtered filters

## **Applications**

Materion Barr Precision Optics & Thin Film Coatings
Dichrolight™ filters are the first choice when it comes to
entertainment lighting in shows, theatres, discotheques,
stages and architectural lighting. A selection of modern,
new designed colors meet the requirements of lighting
effects. Gobos, which require stable colors on heat resistant
substrates as well as fiber optic illumination devices, achieve
premium performance using Dichrolight™.



#### Technical Data

#### Colors

■ Choose from 17 standard colors or ask for customized colors

#### Dimension

- 160 × 110 mm thickness = 1.1 mm
- Other dimensions on request

#### Glass type

■ Heat resistant Borosilicate glass

### Operation temperature

■ Up to 400°C

Materion is a global advanced materials company, dedicated to providing solutions that enable our customers' technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative, best total-cost solutions.

## MATERION BARR PRECISION OPTICS & THIN FILM COATINGS

2 Lyberty Way Westford, MA 01886 Phone: +1.978.692.7513 www.materion.com/barroptics 33# Building,
No. 76 Fu Te Dong San Road,
WGQ Free Trade Zone, Pudong
Shanghai 200131, P. R. C.
T +86 21 5057 4646
F +86 21 5057 4647

MATERION CORPORATION www.materion.com