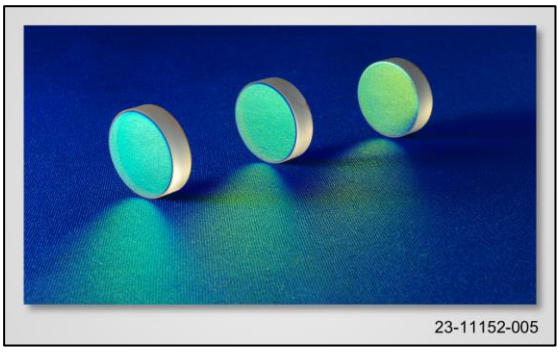
DEPOSITION SCIENCES, INC.
A LOCKHEED MARTIN COMPANY

TECHNICAL DATA SHEET

Notch Filter



PROCESS/PRODUCT DESCRIPTION

Notch filters eliminate or block a range of wavelengths while transmitting both shorter and longer wavelengths outside of the blocked region. Thus, they provide the exact opposite functionality of a bandpass filter. If the filter is wideband, it is referred to as a band-rejection filter and if the filter is narrow-band, it is referred to as a notch filter.

APPLICATIONS

- Military targeting systems
- Raman spectroscopy
- Electro Optical Tracking Systems (EOTS)
- Instrumentation

BENEFITS/ADVANTAGES

- High in-band rejection
- Sharp cut-on and cut-off slopes
- Excellent out-of-band transmission
- No wet/dry wavelength shift
- Thermally stable

TECHNICAL SPECIFICATIONS

For the buyer of notch filters, it's useful to understand some of the most common design and production tradeoffs in order to avoid writing specifications in a way that drive up cost unnecessarily.

CUSTOMIZATION

DSI has extensive experience in the design and manufacture of notch filters for use at wavelengths ranging from the ultraviolet through the long-wave infrared. These include broad and narrow notch designs. All DSI notch filters are characterized by high in-band blocking, excellent out of band transmission and immunity to shifts due to changing humidity.