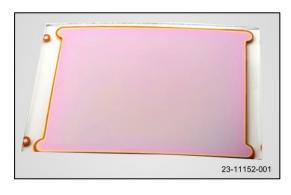


Technical Data Sheet

Bandpass Filters

PROCESS/PRODUCT DESCRIPTION

DSI has 40+ years of experience producing bandpass filters for use in the VIS, NIR, SWIR and MWIR. The bandpass filters are



produced in our proprietary MicroDyn™ sputtering machines which deposit durable coatings that can be used in a broad range of operating environments.

APPLICATIONS

- Missile Targeting Pods
- Focal Plane Array Assemblies
- Intelligence, Surveillance, and Reconnaissance (ISR)
- Search and Track
- Countermeasure Systems
- Payload Sensors

BENEFITS/ADVANTAGES

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

TECHNICAL SPECIFICATIONS

Coatings can be applied to Silicon, Quartz, Sapphire, BK7, as well as other substrates, depending on the wavelength of interest. Substrate sizes typically range from a few mm to 100 mm. Operating temperature transmittance measurements can be made inhouse.

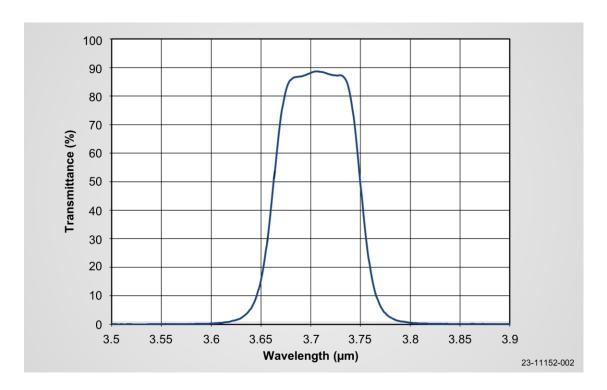
- Operating temperature 10K to 325K
- Edge placement ±0.5% or better
- Slopes nominally <1%
- Peak transmittance typically >80-90%,

- Bandwidths are manufactured to customer specifications, typically 1% to 10% FWHM.
- Out of band blocking of 0.1% absolute, 0.01% average is typical.

CUSTOMIZATION

Patterning of apertures available upon request.

SAMPLE PERFORMANCE



DSI engineers work closely with customers to develop filter specifications that deliver the performance required for their systems. Let DSI engineer a solution for you.