

Acousto-optical Frequency Shifter I-FS040-1.5S2E-3-LE15

- Device: AO Frequency shifter
- Interaction material: Tellurium Dioxide
- RF Drive Frequency: 40MHz
- Operational wavelength: 630 - 680nm
- Reflectivity per surface: < 0.2%
- Minimum optical aperture: 4 x 2.0 mm (horizontal and vertical)
- Active aperture: 1.5mm (vertical)
- Transmission: > 95% @ 633nm
- Maximum diffraction efficiency: > 90% @ 633nm
- Polarisation of input beam: Linear and horizontal with respect housing
- Polarisation state of 1st order: Linear and orthogonal to input and zero order beams
- Zero to 1st order polarisation extinction ratio: > 100:1
- Amplitude Modulation of Diffracted-Order: < -40dB (@40MHz & 80MHz)
- Output Configuration: Diffracted & undiffracted beams split about Input direction.
- Separation (0 to Diffracted-order): > 2°
- RF Drive Power: > 100mW
- Input Impedance: 50W
- RF connector: SMA Bulkhead Jack
- Housing dimensions: See appended sketch

