

## 1. TECHNICAL SPECIFICATIONS - DICHOIC MIRROR (LONG WAVE PASS)

	Specification	Requirement
1.	Substrate material	Fused Silica
2.	Length	36.2±0.2mm
3.	Width	25.2±0.2mm
4.	Thickness	2±0.2mm
5.	Scratch / Dig	60/40 or better (MIL-PRF-13830B)
6.	Edge finish	Grounded edge finishing
7.	Orientation	Arrow on the edge indicating primary coating
8.	Angle of incidence	45±0.5 degree
9.	Transmission & Band	Tavg>90%, 536.2±0.25nm to 676nm
10.	Reflection & Band	Rabs≥90%, 531.5±0.25nm to 532.5nm
11.	Wavelength shift	0.35% per degree
12.	Edge steepness	3±0.5nm
13.	Half cone angle of incidence	0.5 deg
14.	Optical damage rating	≥1 J/cm <sup>2</sup>
15.	Package Type	No mounting/ housing required
16.	Quantity	15 nos.

## 2. Delivery Terms

The components will be subjected to Reliability and Environmental Tests such as adhesion, abrasion, humidity, thermal shock and LIDT test as per standards MIL-C-48497 and ISO 21254 as applicable. The components shall withstand these reliability tests.

## 3. General Conditions

- 3.1. Commercial off-the-shelf components with hard coatings are acceptable.
- 3.2. The party is required to furnish a Certificate of Conformance (COC) for the substrates and their quality.
- 3.3. The test and characterization report should include spectral measurements performed with a wavelength resolution of 0.1nm or better.
- 3.4. Component traceability like coating batch details, coating date and product number to be provided along with delivery.
- 3.5. The reports mentioned in the conditions above (3.2 & 3.3) should be shared prior to product delivery. Products will be dispatched to LEOS upon the acceptance of the COC and test reports.
- 3.6. Point by point compliance shall be provided in the offer for each of the specification
- 3.7. Certificate from Principal for authorized distributors to be provided
- 3.8. Warranty: Dichroic mirrors shall meet the specified performance criteria for a period of 12 months from the date of delivery.