

**LU1: LAB 1-2A:** Familiarization with Lab Equipment & Components in the Midwest Photonics Education Center (MPEC) photonics kit.

REFERENCES:

- *Fundamentals of Light & Lasers* (OPTEC), 2<sup>nd</sup> edition.
- Module 2, Laboratory 1-2A, page 42.
- <http://optecvideo.opteccrm.org>, Video 5.
  - Course 1: Fundamentals of Light and Lasers
  - Lab Activity Video
  - Choose Video #.

THEORY: Having a familiarization with components will assist in the completion of each lab.

OBJECTIVE: Become familiar with components in the MPEC Photonics Lab kit by conducting an inventory of the kit.

EQUIPMENT:

- MPEC Lab Kit
- Inventory Lab Sheet
- Lab Write-Up Sheet
- MPEC Photonics Kit Lab Component Placement file
- MPEC Photonic Kit Inventory file

PROCEDURE: **Read the entire PROCEDURE before starting the lab. Please let me know if you have questions.**

- Open the MPEC Photonics Kit.
- Use the *MPEC Photonics Kit Lab Component Placement file* and the *MPEC Photonic Kit Inventory file* as guides to physically find and identify each part in the kit.
- Complete the Lab 1-2A Inventory Lab Sheet and Lab Write-Up Sheet
- Include a picture of every 9<sup>th</sup> item: #9, #18, etc. in the Photonics Kit in the Lab Write-Up.
- Submit per the Course Schedule due date.
- Be certain you have all components listed.
- Also, please make note of what is different and inform the instructor.