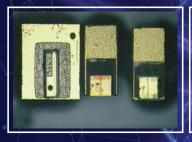


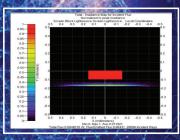
MINIATURISED RGB LASER MODULE

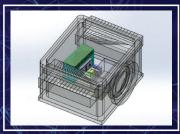
- Integrated optical & microelectronic sub assembly
 - »Hermetic sealed package
 - >> Controlled internal environment
 - Tailored laser diode chips, Red: AlGaInP, Blue: GaInN, Green: GaInN

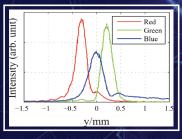
- Optical & thermal design & simulation, FAC / SAC lens
 - >> 3D CAD model: Mechanical design, optical, thermal simulation
 - Micron pick and place component mounting & alignment





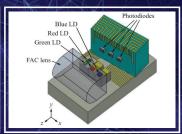












- Optical properties: Light beams are fast and slow axis collimated
 - >> RGB laser diode active alignment
 - »RGB beams, nearly diffractionlimited
 - Fast axis beam profiles at 50 cm (above image)

- Conclusion
 - >> Miniaturised RGB laser light source
 - Custom red, blue laser diodes and FAC / SAC microlens
 - >> Total volume of only 0.45 cm³