

# Electrical and topography analysis of 50 $\mu\text{m}$ gap aluminium based interdigitated electrode

The aim of this research study is to study the electrical and topography analysis of fabricated Aluminium Interdigitated Electrode (Al IDE). Al IDE pattern was designed using AutoCAD software with 50  $\mu\text{m}$  finger gap. Fabricated electrode was physically characterized using High Power Microscope (HPM), Scanning Electron Microscope (SEM) and electrically validated through I-V measurement using Current Source Meter (Keithley 2450) and sensor platform. Electrical measurement confirmed that Al IDE was well fabricated without any shortage and results of similar Al IDE samples were confirmed that the repeatability of the device.