



Advanced Linear Imaging Scanning Sensor 14032 X 1



SCL Part No.

SD3002-0 (with AB)
SD3005-0 (without AB)

PRODUCT DESCRIPTION:

ALISS or Advanced Linear Imaging Scanning Sensor is a single array photodiode CCD sensor. It consists of linear 14k photo-diodes and 16 isolation pixels on both left and right side of the photodiode array. Each pixel has two storage gates and a transfer gate connecting the horizontal shift registers (HSR). The architecture has 10 sets of HSRs i.e., 1400 pixels per HSR set. Odd pixels are readout through port 1 to port 5 and even pixel are readout through port 6 to port 10.

Two variants have been designed and fabricated, SD3002-0 with anti-blooming and SD3005-0 without anti-blooming.

FEATURES:

- Device size: 116.1 mm X 5.2 mm
- Active elements: 14032 X 1 pixels
- Pixel Pitch: 8 μ m
- Video Outputs: 10
- Elements per readout: 1400
- Vertical Transfer 2-phase
- Vertical Line Transfer Rate: 0.33 kHz
- Horizontal register transfer: 4-phase
- Readout Rate: 0.5 MHz
- Anti-blooming feature available in one variant.

DEVICE BLOCK DIAGRAM:

