

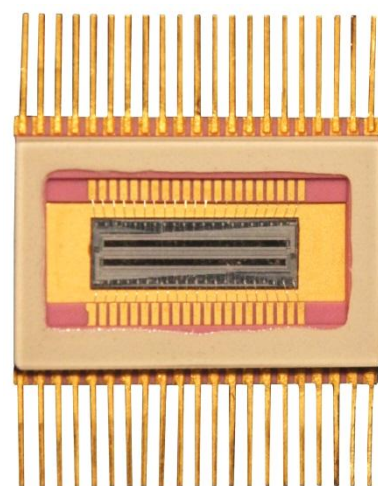
LINEAR CCD 8L

Linear CCD 8L consists of two identical linear 1000 pixel CCDs. The devices on a chip are oriented in parallel with rotary symmetry of 180° and are displaced relative to each other at a half of pixel pitch (6.5 μm).

Each of CCDs has bilinear arrangement and comprises separate sections for charge packet detection and accumulation.

Antiblooming permits CCD to operate at device overillumination factor no less than 100. Electronic exposure mode ($\geq 10 \mu\text{s}$) is also provided.

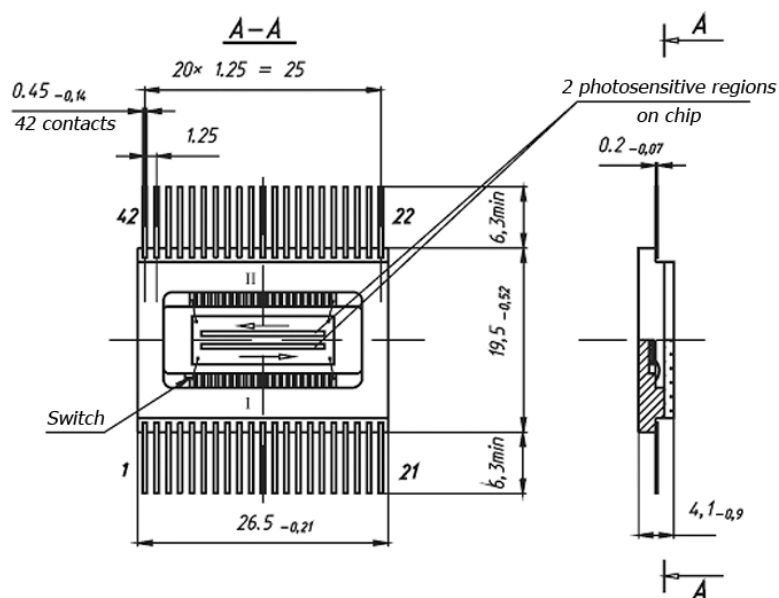
Application: spectral analysis equipment; optoelectronic systems of space orientation; object size measuring non-contact systems.



SPECIFICATIONS

Number of pixels	2 × 1000
Pixel size, μm ²	13 × 500
Pixel pitch, μm	13
Distance between CCDs, μm	844
Package dimensions, mm	26.5 × 19.5
Register control	4-phase
Max. data output rate, MHz	5
Saturation signal, V	1.4
Dynamic range	≥ 6000
Responsivity (A type source with C3C-23 at output signal frequency 200 kHz), V/lx·s	25
Relative luminous nonuniformity, %	± 3
Relative dark signal nonuniformity, %	0.1
Max. voltage on terminals, V	20
Max. operation frequency, MHz	2.5
Operation temperature range, °C	-50 ÷ +50

DIMENSIONAL OUTLINE



SPECTRAL RESPONSE CHARACTERISTICS

