JSC "Ruselectronics"
NATIONAL RESEARCH INSTITUTE
ELECTRON

LINEAR CCD 32L

Linear CCD 32L consists of two identical linear 2600 pixel CCDs with axis symmetry and independent control.

Each CCD has bilinear arrangement and comprises separate sections for charge detection and accumulation. Antiblooming permits CCD 32L to operate at device overillumination factor no less than 100. Electronic exposure mode (≥10 μs) is also provided.

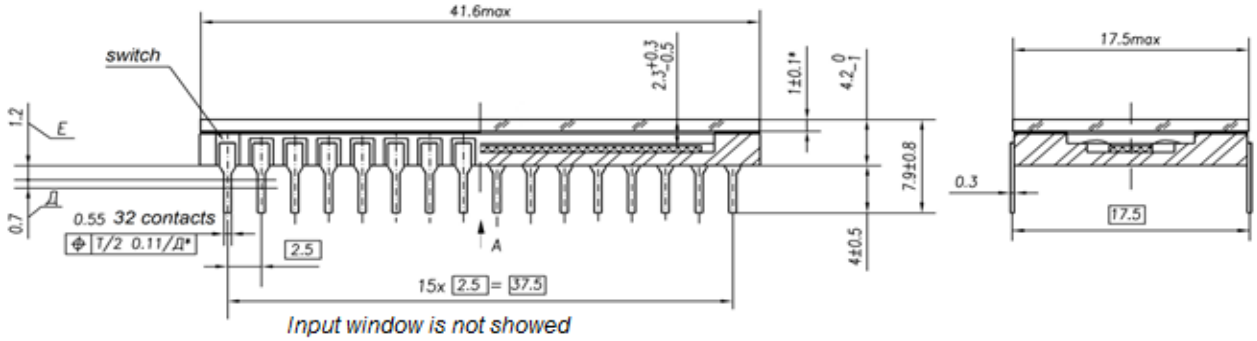
Application:

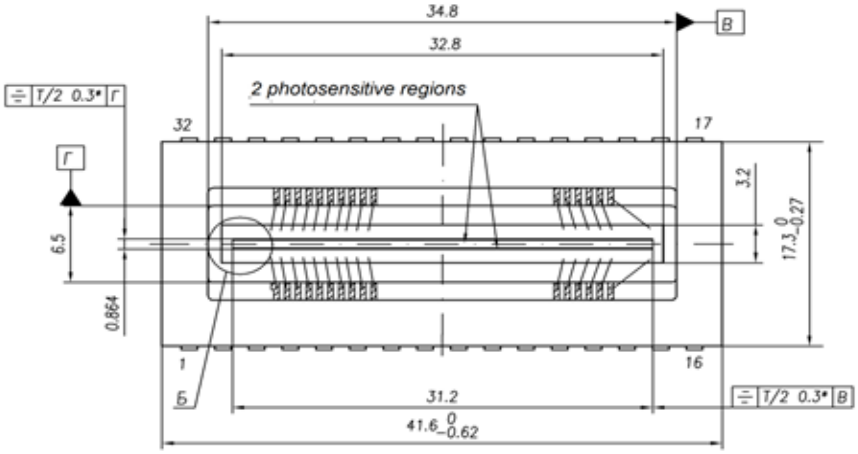
Linear CCD 32L is intended for application in spectroscopy, coordinate measuring systems, systems of space orientation and space equipment engineering.

SPECIFICATIONS

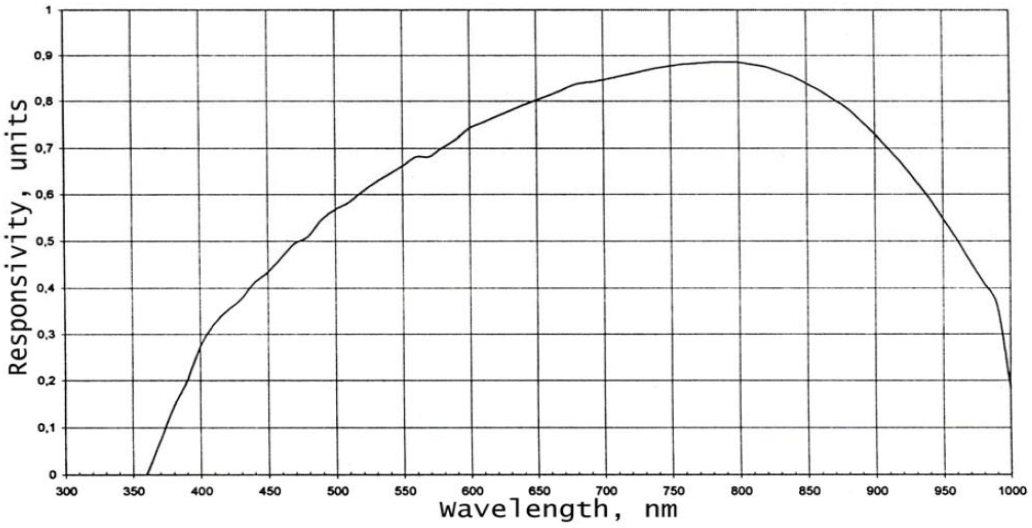
Number of pixels	2×2600
Pixel size, (H×V), μm^2	12×100
Pixel pitch, μm	12
Photosensitive region length, mm	≥13.3
Distance between ends of linear CCDs, μm	32 × 27 × 5.7
Package overall dimensions, mm	41,6×17,4
Register control	4-phase
Max. data output rate, MHz	5
Saturation signal, V	2.4
Dynamic range, dB	6000
Responsivity (source of A type with C3C-23, at output signal 200 kHz), V/lx·s	12
Relative luminous nonuniformity, %	± 5
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



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