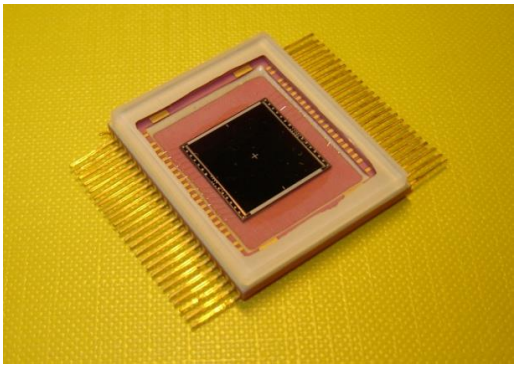
JSC "Ruselectronics"
NATIONAL RESEARCH INSTITUTE
ELECTRON

LINEAR CCD 29L

CCD 29L comprises two identical linear CCDs arranged in parallel on one chip at 12.5 mm distance with independent control.

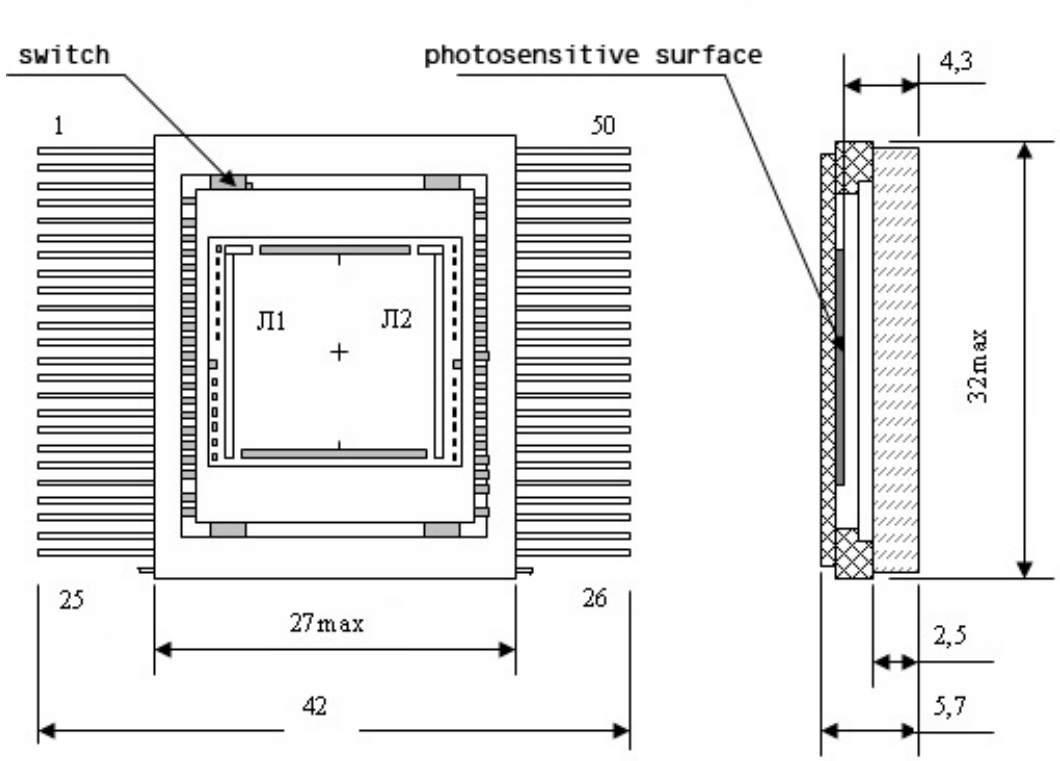


SPECIFICATIONS

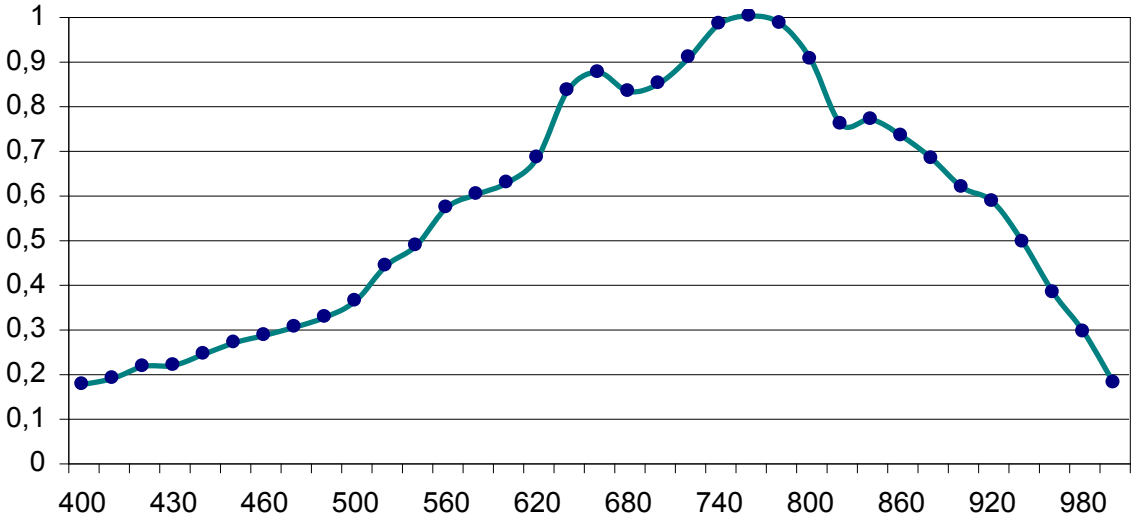
Number of photosensitive regions, pcs.	2
Number of pixels for each CCD	1024
Distance between axes of photosensitive lines, mm	12.5
Pixel size, (HxV), µm	13 × 50
Photosensitive region length, mm	≥13.3
Dimensions (without contacts), mm	32 × 27 × 5.7
Saturation voltage, V	3.6
Spectral sensitivity (λ=0.67±0.02µm), $Vcm^2/\mu mJ$	20
Output signal mean square nonuniformity related to mean output signal at E=0.5Esat : - across the whole area of pixels, % - across local area of 20 pixels, %	 5 3
Mean dark signal voltage, mV	20
Dynamic range, dB	75
Charge transfer inefficiency, per unit	0.06
Number of defect pixels	not allowed
Leakage current between electrodes, µA	100
Data output frequency, kHz	150

Direct voltage on drains of output unit transistor, V	≤24
Direct voltage on dividing drain, V	≤24

SOCKET CONNECTIONS



SPECTRAL RESPONSE CHARACTERISTICS



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