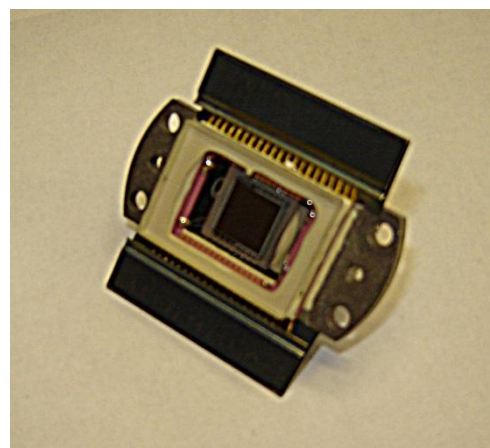


CCD 31M

CCD 31M is a one-sectional device cooled by built-in electric thermocooler Peltier. Package is vacuum, filled with gas. The CCD is fulfilled with buried channel and comprises 512x512 pixels with two timing electrodes and "virtual" phase. The register has two output units: one-stage ("low-noise") and two-stage ("wide-band").

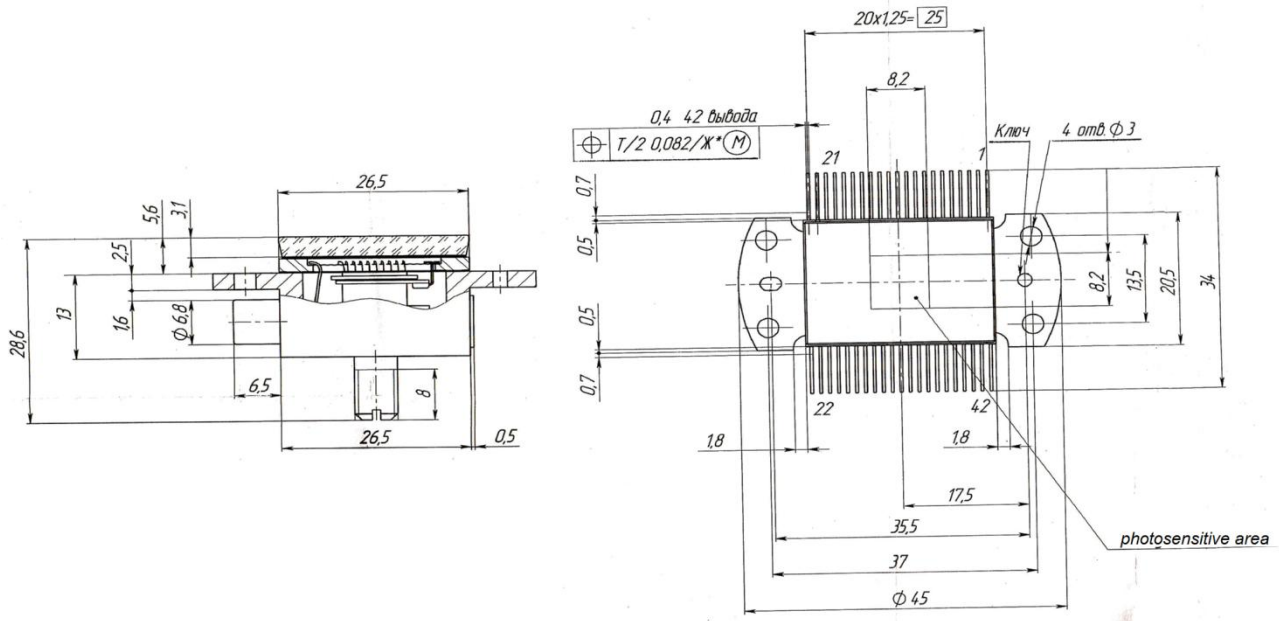
The device is intended for operation in low frame mode (at 2 MHz readout frequency and 1-2 s accumulation time) and can be applied in TV equipment for stellar monitoring and astroorientation systems.



SPECIFICATIONS

Number of pixels		512×512
Photosensitive area size, mm		8.2×8.2
Pixel size, (HxV), μm		16×16
Weight, g		≤ 30
Saturation voltage, V		≥1.0
Relative dark signal, %		≤0.1
Transfer inefficiency along the horizontal and the vertical, per unit		≤0.05
Dynamic range		7000
Spectral sensitivity, mA/W	550 nm	≥200
	700 nm	≥250
	950 nm	≥80
Output signal relative mean square nonuniformity, %		3.0

DIMENSIONAL OUTLINE



SPECTRAL RESPONSE CHARACTERISTICS

