JSC "Ruselectronics"
NATIONAL RESEARCH INSTITUTE
ELECTRON

SILICON VIDICON LI479-3

2/3" Vidicon LI479-3 with mosaic photodiode has a silicon target, magnetic focusing and deflection. The tube presents high immunity to local over-illumination and is used in applied TV cameras.

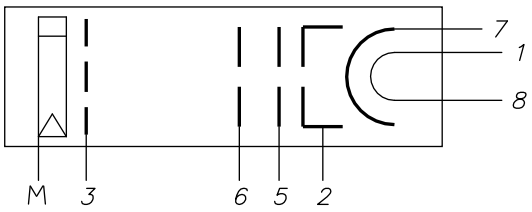
Application: specialized TV systems of high sensitivity. It is intended for work in the television equipment with the standard mode of decomposition for 625 lines and 25 frames per second.

Construction design: Glass material; without base with ring outputs of signal plate and grid.

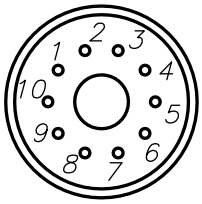
SPECIFICATIONS

Target active area, mm	9.5 × 12.7
Length, mm	≤ 132
Diameter, mm	≤ 26,7
Diameter of contact rings, mm	28.8 ± 0.4
Mass, g	≤500
Spectral response, nm	400 ÷ 1100
Target illumination, lx	0.5
Signal current at illumination 0.5 lx, μA	≥0.3
Resolution at the center, TVL	≥600
Resolution in the corners, TVL	≥500
Modulation depth at 400 TVL, %	35
Decay lag after 40 ms, %	10
Signal current nonuniformity (max.), %	15
Dark current, μA	≤10
Dark noise nonuniformity, %	≤5
Geometric distortion , %	≤2
Capacity between pickup electrode and other electrodes connected together, pF	≤6
Heater voltage, V	6.3
Heater current, mA	80 ÷100
Signal plate voltage, v	14
Voltage of first anode, V	280÷300
Voltage of second anode, V	300÷320
Grid voltage, V	500
Modulator cut-off (negative) voltage, V	5 ÷ 100
Heater power, W	60
Min. operating time, h	1000

LI479-3 CIRCUIT



Output connections



Output	Electrode
1, 8	Heater
2	Modulator
3	Grid
4	Don’t switch on!
5	First anode
6	Second anode
7	Cathode
9	Switch - shorten pin
SP	Pickup plate

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