



**EKRAN**  
OPTICAL SYSTEMS



PMT



## Photomultiplier tube PMT-125

The photomultiplier PMT-125 has a translucent antimony-potassium-sodium-cesium photocathode with spectral characteristics in the area of 300 is 850 nm, the electrostatic focusing of electrons, 12-dynode multiplied system of louvered type, flat face optical input and reflex output; made without socle design with tough wires. The photomultiplier is used in radio electronic devices of general application to convert light signals into electrical.

### Technical specification

Parameter, unit	Standard		
	No less	Nominal	No more
<b>Constructive dimensions</b>			
Diameter (max), mm		170	
Useful photocathode diameter, mm		150	
Fit length, mm		190 <sub>6</sub>	
Weight, g		1000	
<b>Electrical and lighting parameters</b>			
Luminous photocathode sensitivity, A/lm	$8 \times 10^{-5}$	-	-
Luminous anode sensitivity, A/lm	-	10	-
Supply voltage, V	-	-	1500
Dark current, A	-	-	$5 \times 10^{-8}$
Energetic resolution, %			
-in the center of the cathode;	-	-	10
-at a distance of 50 mm from the center	-	-	12
Energy equivalent of its noise, keV	-	-	7
Insulation resistance, MOm	$10^3$	-	-
Nonlinearity of luminescence characteristics in impulse regime, %	-	-	20
Instability, %	-	-	5
Maximum position of spectral characteristics, nm	370	-	500
<b>Resistance to external factors</b>			
Sinusoidal vibration (vibration strength):			
- frequency range, Hz		1÷2000	
- acceleration amplitude, m/s <sup>2</sup> (g)		100 (10)	
Mechanical shock of repeated action with peak shock acceleration, m/s <sup>2</sup> (g)		400 (40)	
Operating temperature of ambient, °C		minus 60; +70	
High pressure air, kPa (kgf/cm <sup>2</sup> )		147 (1,5)	
Low working pressure, kPa (mm Hg)		53,3 (400)	
MTF, h		2000	



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