

## Photomultiplier tube PMT-97

The photomultiplier PMT-97 has a translucent antimony-cesium photocathode with spectral characteristics in the area of 250 to 650 nm, the electrostatic focusing of electrons, 14-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 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		52	
Useful photocathode diameter, mm		40	
Fit length, mm		110 <sub>-6</sub>	
Weight, g		140	
<b>Electrical and lighting parameters</b>			
Luminous photocathode sensitivity, blue, A/lm	3,5x10 <sup>-5</sup>	-	-
Luminous anode sensitivity, A/lm	-	30	-
Supply voltage, V	-	-	1700
Dark current, A	-	-	6x10 <sup>-8</sup>
Energetic resolution, %	-	-	11
Nonlinearity of luminescence characteristics in impulse regime, %	-	-	20
Energy equivalent of its noise, keV	-	-	2,5
Instability, %	-	-	5
Position of maximum spectral characteristics, nm	360	-	460
<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> )		294 (3)	
Low working pressure, kPa (mm Hg)		53,3 (400)	
MTF, h		3000	



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