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
Constructive dimensions			
Diameter (max), mm		170	
Useful photocathode diameter, mm		150	
Fit length, mm		$190_{.6}$	
Weight, g		1000	
Electrical and lighting parameters			
Luminous photocathode sensitivity, A/lm	$8x10^{-5}$	-	-
Luminous anode sensitivity, A/lm	-	10	-
Supply voltage, V	-	-	1500
Dark current, A	-	-	$5x10^{-8}$
Energetic resolution, % -in the center of the cathode; -at a distance of 50 mm from the center	 - -	 - -	 10 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
Resistance to external factors			
Sinusoidal vibration (vibration strength): - frequency range, Hz - acceleration amplitude, m/s^2 (g)		 1÷2000 100 (10)	
Mechanical shock of repeated action with peak shock acceleration, m/s^2 (g)		400 (40)	
Operating temperature of ambient, °C		minus 60; +70	
High pressure air, kPa (kgf/cm^2)		147 (1,5)	
Low working pressure, kPa (mm Hg)		53,3 (400)	
MTF, h		2000	

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