



EKRAN
OPTICAL SYSTEMS



PMT



Photomultiplier tube PMT -167-1

The photomultiplier PMT-167-1 has a translucent antimony-potassium-sodium-cesium photocathode, the electrostatic focusing of electrons, flat face optical input, 12-dynode multiplied system of louvered type and reflex output; made without socle design. The photomultiplier is used to convert light signals into electrical spectrometry and registration scintillation radiation.

Technical specification

Parameter, unit	Standard		
	No less	Nominal	No more
Constructive dimensions			
Diameter (max), mm	130		
Useful photocathode diameter, mm	100		
Fit length, mm	140 ₋₆		
Weight, g	450		
Electrical and lighting parameters			
Spectral sensitivity of photocathode at the wavelength 410 nm, A/Wt	5x10 ⁻²	-	-
Luminous anode sensitivity, A/lm	-	10	-
Supply voltage, V	-	-	1650
Dark current, A	-	-	5x10 ⁻⁸
Energetic resolution, %	-	-	7,7
Energy equivalent of its noise, keV	-	-	2
Resistance to external factors			
Sinusoidal vibration (vibration strength): - frequency range, Hz - acceleration amplitude, m/s ² (g)	1÷80 50 (5)		
Mechanical shock of repeated action with peak shock acceleration, m/s ² (g)	150 (15)		
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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