



EKRAN
OPTICAL SYSTEMS



PMT



Photomultiplier tube PMT-92

The photomultiplier PMT-92 has a translucent antimony-cesium photocathode with spectral characteristics in the area of 300 is 650 nm, the electrostatic focusing of electrons, 12-dynode multiplied system of louvered type, flat face optical input and reflex output; made in glass-to-metal shell filled with polyurethane foam dielectric housing with a flexible wires. Photomultiplier is used in electronic devices of general application, working in conditions of high mechanical loads, to convert light signals into electrical.

Technical specification

Parameter, unit	Standard		
	No less	Nominal	No more
Constructive dimensions			
Diameter (max), mm	40		
Useful photocathode diameter, mm	25		
Fit length, mm	110 _{2,2}		
Weight, g	150		
Electrical and lighting parameters			
Luminous photocathode sensitivity, A/lm	2,5x10 ⁻⁵	-	-
Luminous anode sensitivity, A/lm	-	30	-
Supply voltage, V	-	-	1700
Dark current, A	-	-	5x10 ⁻⁹
Energetic resolution, %	-	-	11
Energy equivalent of its noise, keV	-	-	2
Instability, %	-	-	5
Position of maximum spectral characteristics, nm	380	-	490
Nonlinearity of luminescence characteristics in impulse regime,%	-	-	10
Readiness time, s	-	-	10
Resistance to external factors			
Sinusoidal vibration (vibration strength): - frequency range, Hz - acceleration amplitude, m/s ² (g)	1÷2000 200 (20)		
Mechanical shock with peak shock acceleration, m/s ² (g) - repeated action - single action	400 (40) 15000 (1500)		
Operating temperature of ambient, °C	минус 60; +55		
High pressure air, kPa (kgf/cm ²)	294 (3)		
Low working pressure, kPa (mm Hg)	53,3 (400)		
MTF, h	2000		



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