Photomultiplier tube PMT-93

The photomultiplier PMT-93 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 without socle design with tough wires. 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
Constructive dimensions			
Diameter (max), mm		52	
Useful photocathode diameter, mm		40	
Fit length, mm		$110_{.6}$	
Weight, g		140	
Electrical and lighting parameters			
Luminous photocathode sensitivity, A/lm	$3x10^{-5}$	-	-
Luminous anode sensitivity, A/lm	-	10	-
Supply voltage, V	-	-	1550
Dark current, A	-	-	$5x10^{-8}$
Energetic resolution, %	-	-	11
Energy equivalent of its noise, keV	-	-	2,5
Instability, %	-	-	5
Position of maximum spectral characteristics, nm	380	-	480
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)		294 (3)	
Low working pressure, kPa (mm Hg)		53,3 (400)	
MTF, h		3000	

EKRAN OPTICAL SYSTEMS

JSC «Ekran - optical systems»
630047 Russia, Novosibirsk, Dargomyzhskogo 8a

F: +7(383)325-17-58 **M:** info@ekran-os.ru **www.ekran-os.ru**