



EKRAN
OPTICAL SYSTEMS



PMT



Photomultiplier tube PMT190

The photomultiplier PMT190 has a translucent antimony-sodium-potassium photocathode with spectral characteristics in the area 350 is 650 nm, the electrostatic focusing of electrons, 12-dynode multiplied system louvered type, flat face optical input and reflex output, a built-in low-voltage divider; 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 and climatic 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 _{-2,4}		
Weight, g	140		
Electrical and lighting parameters			
Luminous photocathode sensitivity, blue, A/lm	4x10 ⁻⁵	-	-
Spectral sensitivity of the photocathode at the wavelength 410 nm, A/Wt	3,5x10 ⁻²	-	-
Luminous anode sensitivity, A/lm	-	10	-
Supply voltage, V	-	-	1700
Dark current, A	-	-	1,5x10 ⁻⁹
Energetic resolution, %	-	-	12
Energy equivalent of its noise, keV	-	-	3
Instability,, %	-	-	10
Position of maximum spectral characteristics, nm	400	-	440
Resistance to external factors			
Sinusoidal vibration (vibration strength):			
- frequency range, Hz	1÷3000		
- acceleration amplitude, m/s ² (g)	300 (30)		
Mechanical shock of repeated action with peak shock acceleration, m/s ² (g)	1500 (150)		
Operating temperature of ambient, °C	minus 40; +125		
High pressure air, kPa (kgf/cm ²)	294 (3)		
Low working pressure, kPa (mm Hg)	70 (525)		
MTF, h	2000		



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