

Photomultiplier tube PMT-139

The photomultiplier PMT-139 has a translucent antimony-potassium-cesium photocathode with spectral characteristics in the area of 350 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. The 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	80		
Useful photocathode diameter, mm	63		
Fit length, mm	125 _{±6}		
Weight, g	200		
Electrical and lighting parameters			
Luminous photocathode sensitivity, blue, A/lm	7x10 ⁻⁶	-	-
Luminous anode sensitivity, A/lm	-	100	-
Supply voltage, V	-	-	1650
Dark current, A	-	-	3x10 ⁻⁹
Energetic resolution, %	-	-	9
Energy equivalent of its noise, keV	-	-	2
Instability, %	-	-	5
Position of maximum spectral characteristics, nm	4000	-	440
Nonlinearity of luminescence characteristics in impulse regime at anode current 0,3 A, %	-	-	20
Resistance to external factors			
Sinusoidal vibration (vibration strength):			
- frequency range, Hz	1÷2000		
- acceleration amplitude, m/s ² (g)	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		



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