



EKRAN
OPTICAL SYSTEMS



PMT



Photomultiplier tube PMT-141-1

The photomultiplier PMT-141-1, used for measuring light fluxes in the area of spectra from 350 to 850 nm in the electronic devices of general application. The photomultiplier has a translucent antimony-sodium-potassium-cesium photocathode, electrostatic focusing of electrons and 13-dynode system multiplication, face optical input, built-in low-power divider, a flexible wires.

Technical specification

Parameter, unit	Standard		
	No less	Nominal	No more
Constructive dimensions			
Diameter (max), mm	38		
Useful photocathode diameter, mm	25		
Fit length, mm	70 _{-1,9}		
Weight, g	120		
Electrical and lighting parameters			
Luminous anode sensitivity, A/lm	-	30	-
Supply voltage, V	-	-	1700
Dark current, A	-	-	3x10 ⁻⁹
Instability, %	-	-	12
Readiness time, s	-	-	20
Energetic equivalent of its noise, keV	-	-	1,5
Divider resistance, MOm	10,8	12	13,2
Energetic resolution, %	-	-	12
Anode capacity -12 and 13 dynode, connected together, pF	-	-	25
Resistance to external factors			
Sinusoidal vibration (vibration strength):			
- frequency range, Hz	1÷2000		
- acceleration amplitude, m/s ² (g)	220 (20)		
Mechanical shock of repeated action with peak shock acceleration, m/s ² (g)	1500 (150)		
Operating temperature of ambient, °C	minus 60; +85		
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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