



EKRAN
OPTICAL SYSTEMS



PMT



Photomultiplier tube PMT-148-1

The photomultiplier PMT-148-1, used for measuring light fluxes in the area of spectra from 350 to 650 nm in the electronic devices of general application. The photomultiplier has a translucent antimony-potassium-cesium photocathode, electrostatic focusing of electrons and 12-dynode system multiplication, flat face optical input, made without socle design with flexible wires.

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	140		
Electrical and lighting parameters			
Luminous photocathode sensitivity, blue, A/lm	5x10 ⁻⁵	-	-
Luminous anode sensitivity, A/lm	-	100	-
Supply voltage, V	-	-	2100
Dark current, A	-	-	5x10 ⁻¹⁰
Energetic resolution, %	-	-	10
Energetic equivalent of intrinsic noise, keV	-	-	1,5
Insulation resistance, MOm	10 ⁴	-	-
Nonlinearity of luminescence characteristics in impulse regime, %	-	-	25
Instability, %	-	-	5
Maximum position of spectral characteristics, nm	380	-	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 25; +55		
High pressure air, kPa (kgf/cm ²)	264 (3)		
MTF, h	5000		



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

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