

SPECTROMETRIC PHOTOMULTIPLIER TUBE PMT-176

PMT-176 has multialkali photocathode of S20 type, electron electrostatic focusing system, 12-dynode multiplication system. The device is intended for photometry and spectrometry, γ -radiation detection by scintillation method, for diagnostic radioisotope equipment. The device could be used in ecology, biophysics, geology, geophysics, nuclear physics, high energy physics, etc.

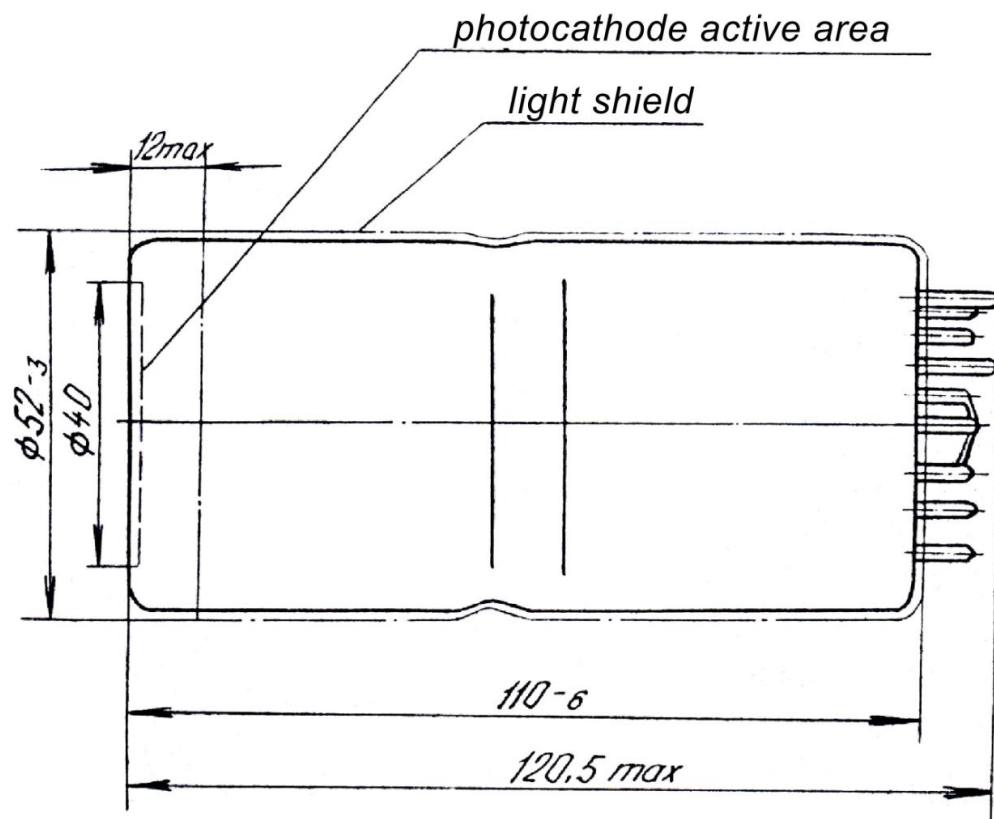


Construction design: PMT-176 is produced in a glass balloon with head-on optical input and with rigid leads. Input window is made of boron-silicate glass C50-3 or C52-2.

SPECIFICATIONS

Photocathode diameter, mm		40
Device diameter, mm		52
Length, mm		120,5
Spectral response, nm		300 ÷ 850
Supply voltage, V		≤1500
Photocathode luminous sensitivity, A/lm		130
Photocathode radiant sensitivity ($\lambda=(410\pm10)$ nm), $\mu\text{A/W}$		52
Anode luminous sensitivity, $\mu\text{A/lm}$		100
Dark current, nA		8
Gain under normal conditions		1×10^5
Pulse height resolution, %	on ^{137}Cs	≤7.3
	on ^{57}Co	≤11.5
Self-noise energy equivalent, keV		≤1.5
Luminous characteristic non-linearity at pulse mode with anode current of 0.3 A and pulse time $\leq 2\times10^{-6}$ s, %		≤30

DIMENSIONAL OUTLINE



SPECTRAL RESPONSE CHARACTERISTIC

