

## RADIATION HARD PHOTOMULTIPLIER TUBE PMT-187 OF HIGH IMMUNITY TO MAGNETIC FIELDS

Photomultiplier tube of PMT-187 series has bialkali photocathode and 15-cascade secondary-electronic amplifier with mesh dynodes. The device is intended for scintillation counting in high-energy physics and could be used under simultaneous exposure of strong magnetic and radioactive fields and elementary particles.



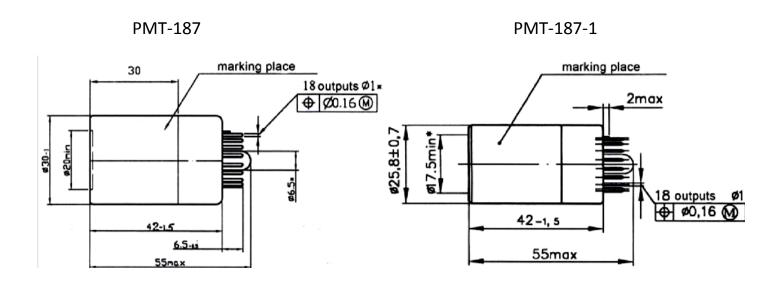
Construction design: PMT-187 is produced in a glass

balloon with head-on input and rigid leads. The input window is made of boron-silicate UV glass, the first dynode is of "proximity" type. Possible complete set includes socket with voltage divider.

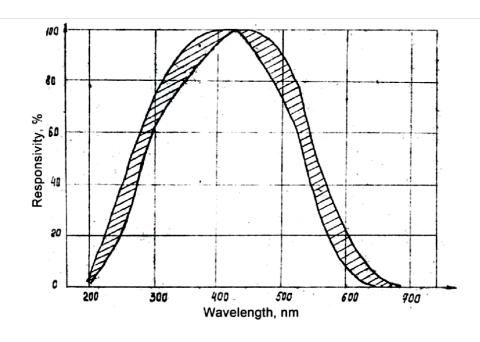
## **SPECIFICATIONS**

	PMT-187	PMT-187-1
Photocathode	SbKCs	
Length, mm	55	
Diameter, mm	30	25.8
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Dynodes, pcs.	15	
Spectral response, nm	220÷650	
Typ. photocathode luminous sensitivity, μA/lm	60	
Typ. photocathode radiant sensitivity (λ=400nm),	60	
mA/W		
Anode luminous sensitivity, A/Im	40	
Typ. supply voltage at anode luminous sensitivity of 30 A/lm, V	≤1800	

Dark current, A	≤1·10 <sup>-8</sup>
Typ. gain under normal conditions	5·10 <sup>5</sup>
Typ. gain under magnetic field of H=0.5 T	2·10 <sup>5</sup>
Typ. pulse rise time, ns	1.4
Typ. energy resolution on Nal(Tl) <sup>137</sup> Cs, %	10.1
Temperature range, º	-60 ÷ +55



## SPECTRAL RESPONSE CHARACTERISTIC



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