



IIT '0' Gen



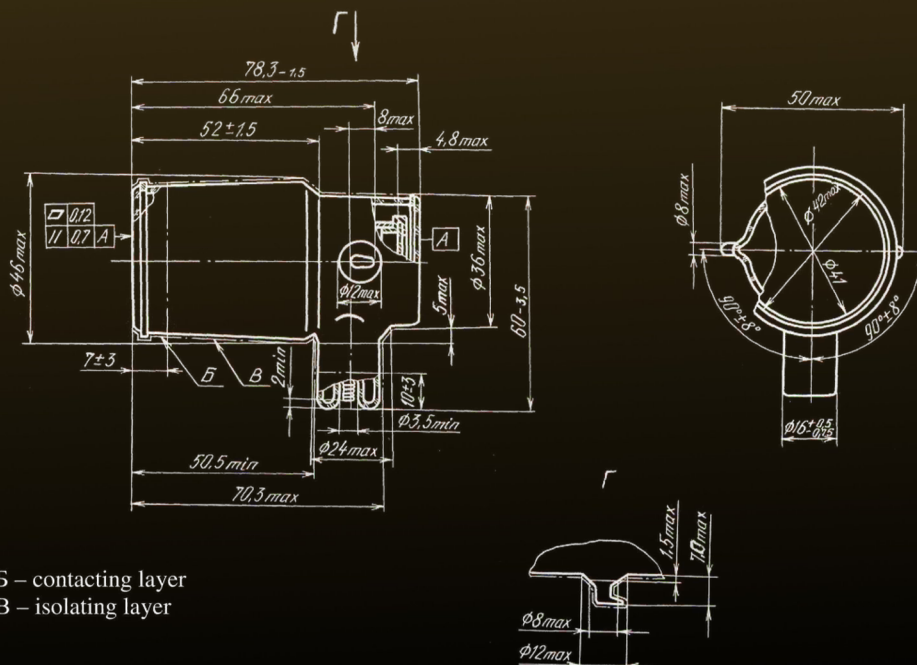
EKCRAN
OPTICAL SYSTEMS



Image intensifier tube V-2K

V-2K – single chamber device in glass version, has a two-electrode electrostatic focusing system, silver-oxygen-caesium photocathode in the area of wavelengths 400-1200 nm, yellow-green color screen of luminescence.

V-2K is a component element in the night vision devices for converting an infrared image into a visible with the using of IR illumination.



Б – contacting layer
B – isolating layer

Technical specification

| Parameter, unit | Values |
|---|------------|
| Photocathode sensitivity with filter, mkA/lm, no less | 10 |
| Resolution at center, lm/mm, no less | 35 |
| Operating resolution, lm/mm, no less | 10 |
| Image intensifier magnification, rel. u | 0,52 |
| Useful photocathode diameter, mm | 33,5 |
| Operating voltage, kV | 19 |
| MTF, h, no less | 1000 |
| Mechanical shock with peak shock acceleration, m/c ² (g) | |
| - single action | 1500 (150) |
| - reoperable | 400 (40) |
| Operating temperature, °C | -50 ÷ +50 |
| Weight, g, no more | 60 |

Purity of the visual area:

| Zone | Form and size of zones on photocathode, mm | The greatest diameter of points, mm | | | The total area of allowable defects on the screen, mm ² |
|------|--|-------------------------------------|-----------|----------|--|
| | | Non accounted | Accounted | | |
| | | | Size | Quantity | |
| 1 | Circle Ø 16,75 | 0,05 | 0,15 | 3 | 0,072 |
| 2 | Ring Ø 16,75-26,8 | 0,10 | 0,25 | 4 | 0,238 |
| 3 | Ring Ø 26,8-33,5 | 0,15 | 0,50 | 2 | 0,475 |



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