

Grid-controlled sixteen-stage multiplier phototube available with S-1, S-11, or S-20 photocathode response. Its long dynode chain provides high optical gain while the control grid permits additional modulation of the detected signal.

### GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | — / —             | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

### SECTION RATINGS

SECTION1 Photomultiplier

No fixed ratings recorded.

Applicable promoted fields mapped from printed headings; specialized microwave/imaging/electrode data retained densely in TUBE\_SECTION\_PARAMETER.

Grid-controlled multiplier phototube with selectable S-1/S-11/S-20 photocathode and 16-stage electron multiplier.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1962 ITT

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1962 ITT

## Section 1 · Photomultiplier

| CHARACTERISTIC                 |                      |                  |
|--------------------------------|----------------------|------------------|
| PARAMETER                      | PUBLISHED VALUE      | CONDITION / NOTE |
| Photocathode Spectral Response | <b>S-1/S-11/S-20</b> | —                |
| Number of Dynodes              | <b>16 count</b>      | —                |
| Control Grid Transmission      | <b>80 percent</b>    | —                |

| CAPACITANCE                           |                 |                  |
|---------------------------------------|-----------------|------------------|
| PARAMETER                             | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-Photocathode Capacitance         | <b>12 pF</b>    | —                |
| Grid-All-Other-Electrodes Capacitance | <b>22 pF</b>    | —                |

| OTHER                                        |                 |                  |
|----------------------------------------------|-----------------|------------------|
| PARAMETER                                    | PUBLISHED VALUE | CONDITION / NOTE |
| Average Photocathode Current Density Maximum | <b>1 uA/cm2</b> | —                |
| Average Anode Current Maximum                | <b>0.3 mA</b>   | —                |
| Peak Anode Current Maximum                   | <b>0.5 mA</b>   | —                |
| Overall Voltage Maximum                      | <b>2250 V</b>   | —                |