

ELECTRONIC TUBE REFERENCE

F3U1

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Russian antimony-cesium photoemissive detector for sound-reproducing cinema equipment and optical instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	0
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	PhotoemissiveDetector
MAXIMUM PLATE VOLTAGE	250 V
Full electrical-data audit completed for this tube.	

The F3U1 is a antimony-cesium phototube for sound-reproducing cine and instrumentation equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

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

195X RUSSIAN

Section 1 · PhotoemissiveDetector

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Spectral response lower wavelength	4000 angstrom	Published range lower bound
Spectral response upper wavelength	6000 angstrom	Published range upper bound
Peak-response wavelength	4000–5000 angstrom	4500 +/- 500 angstrom
Total anode sensitivity	600 uA/lm	At 220 V supply
Dark current	0.0001 mA	Maximum at 220 V
Working temperature	10–30 degC	Published range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	—250 V	Typical 220 V, maximum less than 250 V DC

TUBE TINKER

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