



ELECTRONIC TUBE REFERENCE

F4012

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CAMERAPICKUP

Compact image-dissector camera tube using magnetic focusing and deflection with selectable S-1, S-11, or S-20 photocathode response. It electronically scans an optical image for camera and measurement applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8-11	BASE PINS	9
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 CameraPickup

No fixed ratings recorded.

Applicable promoted fields mapped from printed headings; specialized microwave/imaging/electrode data retained densely in TUBE_SECTION_PARAMETER.

Compact magnetically focused and deflected image-dissector camera tube with selectable S-1/S-11/S-20 photocathode.

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 · CameraPickup

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Photocathode Spectral Response	S-1/S-11/S-20	—
Number of Dynodes	12 count	—
Current Amplification Minimum	50000 ratio	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Overall Voltage Maximum	2800 V	—
Photocathode-Dynode1 Voltage Maximum	500 V	—
Dynode1-Anode Voltage Maximum	2300 V	—
Dynode12-Anode Voltage Maximum	200 V	—
Average Photocathode Current Density Maximum	10 uA/cm2	—
Peak Anode Current Maximum	8 mA	—
Ambient Temperature Maximum	75 C	—