



ELECTRONIC TUBE REFERENCE

FW100

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVE DETECTOR

Coaxial S-4 phototube designed for fast detection and measurement of nuclear radiation through optically coupled radiation-conversion systems. Its fast photoelectric response supports time-sensitive radiation instrumentation.

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

SECTION 1 Photoemissive Detector

No fixed ratings recorded.

Coaxial photodiode; photosensitivity and dark-current data retained as parameters.

ITT Laboratories FW100 is a coaxial s-4 phototube for fast detection and measurement of nuclear radiation.

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 · PhotoemissiveDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode type	S-4	—
Nominal output impedance	50 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode luminous sensitivity	30 uA/lm	—
Cathode radiant sensitivity at 4000 A	0.029 uA/uW	—
Maximum dark current at 6 kV	0.00001 mA	—
Nominal operating anode voltage	6000 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Nuclear-radiation detection	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Geometry	Coaxial diode	—