

Philips fourteen-stage fast high-gain photomultiplier for nuclear-physics timing and scintillation applications. A 42 mm semi-transparent caesium-antimony photocathode and quartz entrance window extend response into the ultraviolet.

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	
MAXIMUM PLATE DISSIPATION	1 W
Photomultiplier; UV-response family designation.	

Philips 56UVP is a 14-stage fast high-gain photomultiplier for nuclear-physics timing and scintillation applications. It uses a 42 mm semi-transparent caesium-antimony photocathode and a quartz entrance window. The quartz window extends response into the ultraviolet.

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Photomultiplier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Multiplier stages	14	—
Useful photocathode diameter	42 mm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum/typical total voltage	2500 V	—
Maximum continuous anode current	2 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-final-dynode capacitance	3 pF	—
Anode-to-all-other-electrodes capacitance	5 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum gain at 2000 V	1000000000	—

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