



ELECTRONIC TUBE REFERENCE

A414

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Philips Miniwatt A414 is a directly heated, low-microphony receiving triode designed for detector and amplifier service, especially in ultrashort-wave receivers. Its ruggedized construction reduces microphone effects, while its economical 4 V, 80 mA filament permits direct operation from a storage battery.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 80 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	14
<i>Philips Miniwatt A414 low-microphony, directly heated receiving triode. General plate operating range 20–150 V; recommended detector plate range 20–100 V. Typical plate current 3 mA; grid bias -4.5 V at 150 V plate voltage (-3 V at 100 V). Published grid-to-plate capacitance approximately 2.5 pF. These are operating conditions, not explicitly stated absolute maximum plate voltage.</i>	



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

9999 Mixed G 2000

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

9999 MIXED G 2000

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	—

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