



ELECTRONIC TUBE REFERENCE

ACPT8

Power - Pentode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Marconi transmitting pentode designed for high-frequency power amplification and oscillator service. Aligned screen and control grids support RF performance, with forced-air cooling specified at high dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 16 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	4500 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	750 W
MAXIMUM SCREEN DISSIPATION	100 W
Published maximum ratings and characteristics audited; remaining useful numerical data retained in TUBE_SECTION_PARAMETER.	

The ACPT8 is a transmitting pentode for high-frequency power-amplifier and oscillator service, with aligned screen and control grids and forced-air cooling at high dissipation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value [1]	750	750 W and giving useful output down to 9 metres.
Published value [2]	9	750 W and giving useful output down to 9 metres.
The screen and control grids are aligned, giving high : I -<\$- +	0.059	The screen and control grids are aligned, giving high : I -<\$- +0.059
are only applicable for use at wavelengths down to ANODE [1]	5	are only applicable for use at wavelengths down to ANODE 5-374CRS: 2756
are only applicable for use at wavelengths down to ANODE [2]	-374	are only applicable for use at wavelengths down to ANODE 5-374CRS: 2756
are only applicable for use at wavelengths down to ANODE [3]	2756	are only applicable for use at wavelengths down to ANODE 5-374CRS: 2756
([1]	1 W	(1) HF POWER AMPLIFIER Ve 800 800
([2]	800 W	(1) HF POWER AMPLIFIER Ve 800 800
([3]	800 W	(1) HF POWER AMPLIFIER Ve 800 800
Ia [1]	550 W	Ia 550 475 380 330 mA (3) HF POWER AMPLIFIER
Ia [2]	475 W	Ia 550 475 380 330 mA (3) HF POWER AMPLIFIER
Ia [3]	380 W	Ia 550 475 380 330 mA (3) HF POWER AMPLIFIER
Ia [4]	330 W	Ia 550 475 380 330 mA (3) HF POWER AMPLIFIER
Ia [5]	3 W	Ia 550 475 380 330 mA (3) HF POWER AMPLIFIER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Iy [1]	120	Iy 120 180 160 160 mA (Anode modulated, one valve, carrier conditions,
Iy [2]	180	Iy 120 180 160 160 mA (Anode modulated, one valve, carrier conditions,
Iy [3]	160	Iy 120 180 160 160 mA (Anode modulated, one valve, carrier conditions,
Iy [4]	160	Iy 120 180 160 160 mA (Anode modulated, one valve, carrier conditions,
(	2 W	(2) HF POWER AMPLIFIER
([1]	4 W	(4) HF POWER AMPLIFIER (5) HF POWER AMPLIFIER
([2]	5 W	(4) HF POWER AMPLIFIER (5) HF POWER AMPLIFIER
(a) Screen voltage obtained by means of a dropping resistance of (c) At crest of audio cycle with	100 V	(a) Screen voltage obtained by means of a dropping resistance of (c) At crest of audio cycle with 100% modulation.
Published value [1]	30000	30,000 from anode HT supply. (d) 100% modulation.
Published value [2]	100	30,000 from anode HT supply. (d) 100% modulation.

TUBE TINKER

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