

ELECTRONIC TUBE REFERENCE

ACT9

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Industrial transmitting power triode intended for RF amplification, oscillation, or modulation. Manufacturer data emphasize substantial plate power, professional transmitter operation, and construction suited to continuous high-power service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.031 S
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	1100 W
MAXIMUM GRID DISSIPATION	40 W
Published maximum ratings and characteristics audited; remaining useful numerical data retained in TUBE_SECTION_PARAMETER.	

The ACT9 is an air-cooled transmitting triode for high-frequency power-amplifier and oscillator service, with convection cooling at lower dissipation and forced-air cooling at higher output.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling. For an anode dissipation up to	800 W	Cooling. For an anode dissipation up to 800 W
radiator must not exceed	150	radiator must not exceed 150°C. All cooling supplies
voltages [1]	0 V	voltages. 0-499
voltages [2]	-499 V	voltages. 0-499
the anode uppermost. ©	237	the anode uppermost. ©:237 DIA.HOLES 1 [
APPROXIMATE DATA (	2 W	APPROXIMATE DATA (2) HF POWER AMPLIFIER
It	22	It 22 A (Grid-modulated, one valve, carrier conditions,
Pa (maxy Convection cooling	800	Pa (maxy Convection cooling 800 W Maximum permissible ratings
Ps (maxy Forced air cooling [1]	1100	Ps (maxy Forced air cooling 1,100 W Va 10,000 V
Ps (maxy Forced air cooling [2]	10000	Ps (maxy Forced air cooling 1,100 W Va 10,000 V
* Each valve is marked with the filament voltage to Va [1]	10000 V	* Each valve is marked with the filament voltage to Va 10,000 7,500 10,000 7,500 v
* Each valve is marked with the filament voltage to Va [2]	7500 V	* Each valve is marked with the filament voltage to Va 10,000 7,500 10,000 7,500 v
* Each valve is marked with the filament voltage to Va [3]	10000 V	* Each valve is marked with the filament voltage to Va 10,000 7,500 10,000 7,500 v
* Each valve is marked with the filament voltage to Va [4]	7500 V	* Each valve is marked with the filament voltage to Va 10,000 7,500 10,000 7,500 v

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
give [1]	2	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
give [2]	90	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
give [3]	170	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
give [4]	225	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
give [5]	125	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
give [6]	165	give 2 A emission at 90%, saturation. Ia 170 225 125 165 mA
([1]	1 W	(1) HF POWER AMPLIFIER AND Vgl (pk) 560 600 420 480 v
([2]	560 W	(1) HF POWER AMPLIFIER AND Vgl (pk) 560 600 420 480 v
([3]	600 W	(1) HF POWER AMPLIFIER AND Vgl (pk) 560 600 420 480 v
([4]	420 W	(1) HF POWER AMPLIFIER AND Vgl (pk) 560 600 420 480 v
([5]	480 W	(1) HF POWER AMPLIFIER AND Vgl (pk) 560 600 420 480 v
Va [1]	10000 W	Va 10,000 10,000 7,500 5,000 A% (3) HF POWER AMPLIFIER
Va [2]	10000 W	Va 10,000 10,000 7,500 5,000 A% (3) HF POWER AMPLIFIER
Va [3]	7500 W	Va 10,000 10,000 7,500 5,000 A% (3) HF POWER AMPLIFIER
Va [4]	5000 W	Va 10,000 10,000 7,500 5,000 A% (3) HF POWER AMPLIFIER
Va [5]	3 W	Va 10,000 10,000 7,500 5,000 A% (3) HF POWER AMPLIFIER
Vgl [1]	-500	Vgl -500 -500 -500 480 A% (Anode-modulated, one valve, carrier conditions,
Vgl [2]	-500	Vgl -500 -500 -500 480 A% (Anode-modulated, one valve, carrier conditions,
Vgl [3]	-500	Vgl -500 -500 -500 480 A% (Anode-modulated, one valve, carrier conditions,
Vgl [4]	480	Vgl -500 -500 -500 480 A% (Anode-modulated, one valve, carrier conditions,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Operation (	4 W	Typical Operation (4) HF POWER AMPLIFIER

TUBE TINKER

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