



ELECTRONIC TUBE REFERENCE

ACT29

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	0.0031 S
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	1250 W
MAXIMUM GRID DISSIPATION	80 W
Published maximum ratings and characteristics audited; remaining useful numerical data retained in TUBE_SECTION_PARAMETER.	

The ACT29 is an air-cooled transmitting triode for high-frequency power-amplifier and oscillator service, with convection or forced-air cooling depending on 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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
When the anode dissipation exceeds	1000 W	When the anode dissipation exceeds 1,000 watts or
When the anode dissipation is	1000 W	When the anode dissipation is 1,000 watts or less
During this process a resistance of at least [1]	25	During this process a resistance of at least 25 ohms .1 125"MIN,
During this process a resistance of at least [2]	1	During this process a resistance of at least 25 ohms .1 125"MIN,
During this process a resistance of at least [3]	125	During this process a resistance of at least 25 ohms .1 125"MIN,
HT voltage in excess of	7 kV	HT voltage in excess of 7 kV. When the valve is to be
Pa(max) (convection cooling) [1]	1 kW	Pa(max) (convection cooling) 1 kW ; 40 60 A
Pa(max) (convection cooling) [2]	40 kW	Pa(max) (convection cooling) 1 kW ; 40 60 A
Pa(max) (convection cooling) [3]	60 kW	Pa(max) (convection cooling) 1 kW ; 40 60 A
(forced air cooling) [1]	1 kW	(forced air cooling) 1-25 kW e (@) m
(forced air cooling) [2]	-25 kW	(forced air cooling) 1-25 kW e (@) m
M taken at	40	M taken at 40 ~ CLASS C ANODE MODULATED
Cg-a [1]	159	Cg-a 159 pF Pa (convection cooling) 650 w
Cg-a [2]	650	Cg-a 159 pF Pa (convection cooling) 650 w
(forced air cooling)	825	(forced air cooling) 825 w
(	1 W	(1) HF POWER AMPLIFIER AND v ypica® operatio . v

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pa (convection cooling) [1]	1000	Pa (convection cooling) 1000 w par (a) 20 w
Pa (convection cooling) [2]	20	Pa (convection cooling) 1000 w par (a) 20 w
(forced air cooling) [1]	1250	(forced air cooling) 1250 w Pa 640 w
(forced air cooling) [2]	640	(forced air cooling) 1250 w Pa 640 w