



ELECTRONIC TUBE REFERENCE

ACT27

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	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.04 S
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	1500 W
Published maximum ratings and characteristics audited; remaining useful numerical data retained in TUBE_SECTION_PARAMETER.	

The ACT27 is a forced-air-cooled transmitting triode for common-grid UHF service, usable as an oscillator to about 400 MHz and as an amplifier to about 600 MHz.

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
ting triode, fitted with an indirectly heated cathode, t	20	ting triode, fitted with an indirectly heated cathode, t .020
The external grid seal also requires air cooling. The [1]	10	The external grid seal also requires air cooling. The 10-06
The external grid seal also requires air cooling. The [2]	-6	The external grid seal also requires air cooling. The 10-06
All cooling supplies must be in operation before " ON [1]	4	All cooling supplies must be in operation before " ON 4 25
All cooling supplies must be in operation before " ON [2]	25	All cooling supplies must be in operation before " ON 4 25
applying any voltage to the valve and should con	10.125 V	applying any voltage to the valve and should con- 10.125'
tinue for at least [1]	2 V	tinue for at least 2 minutes after removal of all voltages. 2-125
tinue for at least [2]	2 V	tinue for at least 2 minutes after removal of all voltages. 2-125
tinue for at least [3]	-125 V	tinue for at least 2 minutes after removal of all voltages. 2-125
The holes in the grid ring are provided for cooling) [1]	0	The holes in the grid ring are provided for cooling) 0-375,
The holes in the grid ring are provided for cooling) [2]	-375	The holes in the grid ring are provided for cooling) 0-375,
Frequency. At frequencies above	350 MHz	Frequency. At frequencies above 350 Mc/s, the anode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Inside diameter of anode line [1]	4	Inside diameter of anode line 4% in. +.040"
Inside diameter of anode line [2]	40	Inside diameter of anode line 4% in. +.040"
Outside diameter of grid line	4	Outside diameter of grid line 4 in.
Frequency [1]	200 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [2]	400 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [3]	400 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [4]	600 MHz	Frequency 200 400 400 600 Mc/s.
Va (max) [1]	1 W	Va (max) 1-5 kv RF Power Amplifier, CW operation
Va (max) [2]	-5 W	Va (max) 1-5 kv RF Power Amplifier, CW operation