



ELECTRONIC TUBE REFERENCE

PT15

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Marconi RF transmitting pentode for oscillator, power-amplifier, frequency-multiplier, and telephony service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.028 S
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM SCREEN DISSIPATION	10 W
<i>Published maximum ratings and characteristics audited; remaining useful numerical data retained in parameter table.</i>	

The PT15 is an RF transmitting pentode for oscillator, radio-frequency power-amplifier, frequency-multiplier, and telephony service.

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
General. The PT [1]	15	General. The PT 15 is a radio-frequency transmitting « 52:0 DIA.EXT —]
General. The PT [2]	52	General. The PT 15 is a radio-frequency transmitting « 52:0 DIA.EXT —]
General. The PT [3]	0	General. The PT 15 is a radio-frequency transmitting « 52:0 DIA.EXT —]
pentode with an oxide-coated dull emitter filament [1]	46	pentode with an oxide-coated dull emitter filament. 46 - 5:0, Al
pentode with an oxide-coated dull emitter filament [2]	5	pentode with an oxide-coated dull emitter filament. 46 - 5:0, Al
pentode with an oxide-coated dull emitter filament [3]	0	pentode with an oxide-coated dull emitter filament. 46 - 5:0, Al
(	1 W	(1) HF POWER AMPLIFIER AND T
Rg1 [1]	2500 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Rg1 [2]	12500 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Rg1 [3]	12500 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Rg1 [4]	20000 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Rg1 [5]	20000 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Rg1 [6]	3 W	Rg12,500 12,500 12,500 20,000 20,000 Q (3) HF POWER AMPLIFIER. CLASS C
Veupky [1]	140	Veupky 140 150 148 129 132V (Grid modulated, one valve, carrier conditions,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Veupky [2]	150	Veupky 140 150 148 129 132V (Grid modulated, one valve, carrier conditions,
Veupky [3]	148	Veupky 140 150 148 129 132V (Grid modulated, one valve, carrier conditions,
Veupky [4]	129	Veupky 140 150 148 129 132V (Grid modulated, one valve, carrier conditions,
Veupky [5]	132	Veupky 140 150 148 129 132V (Grid modulated, one valve, carrier conditions,
([1]	2 W	(2) HF POWER AMPLIFIER. CLASS C I 10 m
([2]	10 W	(2) HF POWER AMPLIFIER. CLASS C I 10 m
(Anode modulated, one valve, carrier conditions, Ve	300	(Anode modulated, one valve, carrier conditions, Ve 300
(	5 W	(5 HF POWER AMPLIFIER.
([1]	4 W	(4) HF POWER AMPLIFIER modulation 100%,.)
([2]	100 W	(4) HF POWER AMPLIFIER modulation 100%,.)
P	14 V	P 14 W At shorter wavelengths the anode voltage must be
a	32 V	a 32 Yo permissible anode voltages against wavelength.