



ELECTRONIC TUBE REFERENCE

3C34

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Heintz & Kaufman 3C34 directly heated thoriated-tungsten transmitting power triode for RF amplification, oscillation and Class B audio modulation, with 6.3 V 3 A filament and 25 W plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	25 W
RMA 1945 3C34 directly heated thoriated-tungsten transmitting triode. At V_a 1000 V, I_a 35 mA: μ 25 and g_m 0.0026 A/V. Grid-plate capacitance 1.3 pF, grid-filament 2.1 pF, plate-filament 0.2 pF. Class C unmodulated max V_a 2000 V, I_a 75 mA, plate dissipation 25 W; typical output 90 W. Class C plate-modulated max V_a 1500 V, I_a 80 mA, plate dissipation 17 W; typical output 60 W. Class B audio balanced pair typical 1250 V, output 120 W; maximum 1500 V. Promoted 2000 V and 25 W correspond to Class C unmodulated limits, not plate-modulated. Full ratings to 60 MHz; higher frequencies require reduced plate voltage and power input.	

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