



ELECTRONIC TUBE REFERENCE

3C-150A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Standard Valves 3C/150-A directly heated thoriated-tungsten RF power triode for broadcast transmitters and modulators, rated 2500 V anode, 150 W dissipation and 10 V 3.4 A filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 3.4 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	3800 Ω
TRANSCONDUCTANCE	0.00475 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	150 W
Standard Valves 3C/150-A directly heated thoriated-tungsten RF triode. At V_a 1000 V and I_a 150 mA: μ 18, r_p 3800 Ω, g_m 0.00475 A/V. Maximum DC anode voltage 2500 V, anode current 200 mA, anode dissipation 150 W, valid through 20 MHz; at 60 MHz anode voltage limit 2000 V. Grid-anode capacitance 7.3 pF, grid-filament 8.6 pF, anode-filament 1.1 pF. Class B balanced AF pair 500–600 W, Class B RF telephony ~80 W per tube, Class C modulated RF 250–270 W, Class C unmodulated RF 300–380 W. Printed maximum RF grid current '10 A' requires separate confirmation due to possible source ambiguity.	