



ELECTRONIC TUBE REFERENCE

3D23

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Lewis Electronics 3D23 directly heated thoriated-tungsten multi-electrode RF transmitting power tube, provisionally classified as a tetrode, with 6.3 V 3 A filament and Class C output around 130 W.

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 Tetrode	
TRANSCONDUCTANCE	0.00275 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	35 W

RMA 1945 Lewis Electronics 3D23 multi-electrode transmitting tube; section type Tetrode PROVISIONAL, electrode construction not definitively identified. At V_a 1500 V, I_a 75 mA, screen 300 V: μ 65, gm 0.00275 A/V. Class C unmodulated maximum V_a 2000 V, I_a 125 mA, screen 400 V, plate dissipation 35 W; typical V_a 1500 V, I_a 110 mA, screen 375 V, RF output 130 W. Class C plate-modulated max V_a 1250 V, I_a 100 mA, screen 350 V, typical output 60 W. Class B RF max V_a 2000 V, I_a 50 mA, screen 400 V, typical output 35 W. Source specifies screen input 8 W, not unambiguously screen dissipation, so no screen-dissipation scalar populated. Interelectrode capacitances and frequency limit not determined by manufacturer. Filament 6.3 V AC 3 A, directly heated thoriated tungsten.