13E12

BEAM TETRODE

TENTATIVE

GENERAL

The 13E12 is an indirectly heated Beam Tetrode having a centre tapped heater. It is suitable for use in stabilised power supply units, servo-mechanisms, etc.

RATING—Absolute Values

Heater Voltage	V_h	26·0	13·0	V
Heater Current	I_h	1·3	2·6	A
Maximum Anode Voltage	$V_{a(max)}$	800		V
Maximum Screen Voltage	$V_{g2(max)}$	300		V
Maximum Control Grid Voltage	$V_{g1(max)}$	–100		V
Maximum Anode Dissipation	$P_{a(max)}$	90		W
Maximum Screen Dissipation	$P_{g2(max)}$	10		W
Maximum Anode + Screen Dissipation (Triode Connected)	$P_{a+g2(max)}$	95		W
Maximum Control Grid Dissipation	$P_{g1(max)}$	1		W
Maximum Cathode Current	$I_{k(max)}$	800		mA
Maximum Heater/Cathode Voltage D.C. (Cathode Positive)	$V_{h-k(max)}$	300		V

INTER-ELECTRODE CAPACITANCES (pF)

Control Grid/Earth	C_{in}	62·0
Anode/Earth	C_{out}	17·0
Anode/Control Grid	C_{a-g1}	1·0

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DIMENSIONS

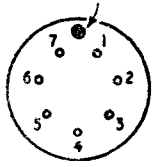
Maximum Overall Length	140 mm
Maximum Diameter	65 mm
Maximum Seated Height	128 mm
Approximate Nett Weight	5 ozs
Approximate Packed Weight	29 ozs

MOUNTING POSITION—Vertical

CHARACTERISTICS—Triode Connected

Anode Voltage	V_a	150	V
Anode Current	I_a	500	mA
Mutual Conductance	gm	25	mA/V
Amplification Factor	μ	2·8	
Valve Anode Resistance (approx.)	r_a	110	Ω

BASE—B7A



Viewed from free end of pins.

CONNECTIONS

Pin 1	Heater	h
Pin 2	Heater Centre Tap	h_{ct}
Pin 3	Control Grid	g1
Pin 4	Cathode	k
Pin 5	Screen Grid	g2
Pin 6	Anode	a
Pin 7	Heater	h

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