

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

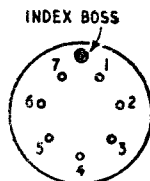
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DIMENSIONS

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	g_m	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