

EDISWAN

MAZDA

30FLI

TRIODE BEAM TETRODE

Indirectly heated—for series operation

TENTATIVE

30FLI

GENERAL

This triode beam tetrode valve combination has a medium mu triode and a high slope beam tetrode and is intended for use in the Video Output or Sync Separator stages of AC/DC Mains Television receivers having series connected heaters.

RATING

		Tetrode	Triode	
Heater Voltage (volts)	V_h	9.4		
Heater Current (amps)	I_h	0.3		
Maximum Anode Voltage (volts)	$V_a(\max)$	250	250	
Maximum Screen Voltage (volts)	$V_{g2}(\max)$	250		
Mutual Conductance (mA/V)	g_m	7.5†	3.4*	
Amplification Factor	μ		18*	
Maximum Anode Dissipation (watts)	$P_a(\max)$	3	2	←
Maximum Screen Dissipation (watts)	$P_{g2}(\max)$	1.0		←
Maximum Heater to Cathode Voltage (volts r.m.s.)	$V_{h-k}(\max)$	‡150		

Notes* $V_a=200$ volts. $I_a=10$ mA.† $V_a=170$ volts. $V_{g2}=170$ volts. $I_a=10$ mA. $V_{g1}=-2.1$ volts.

‡ Measured with respect to the higher potential heater pin.

Indicates a change ←

November, 1958

VALVE & CRT DIVISION

Issue 2/2

SIEMENS EDISON SWAN LIMITED

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TENTATIVEINTER-ELECTRODE CAPACITANCES (pF)

Grid 1/Earth	c_{g1-E}	7.9	π 9.2
Anode q/Earth	c_{aq-E}	3.2	4.5
Grid 1/Anode q	c_{g1-aq}	0.03	0.048
Grid t/Earth	c_{gt-E}	3.6	4.6
Anode t/Earth	c_{at-E}	2.6	3.6
Grid t/Anode t	c_{gt-a}	2.7	3.0
Grid t/Anode q	c_{gt-aq}	0.0068	0.0074
Grid 1/Anode t	c_{g1-at}	0.0083	0.010
Anode q/Anode t	c_{aq-at}	0.037	0.0374

|| Measured with holder capacity balanced out.

π Measured to include capacity of Carr-Fastener ceramic holder without screen or skirt. If a skirted holder is used the total c_{g1-aq} is 0.035 pF.

DIMENSIONS

Maximum Overall Length (mm)	56.0
Maximum Diameter (mm)	22.2
Maximum Seated Height (mm)	49.0
Approximate Nett Weight (ozs)	$\frac{1}{2}$
Approximate Packed Weight (ozs)	$\frac{3}{4}$

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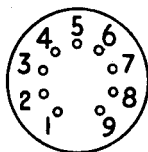
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MOUNTING POSITION—Unrestricted

BASE—Noval (B9A)



Viewed from Free End of pins

CONNECTIONS

Pin 1	Triode Anode	a_t
Pin 2	Triode Grid	g_t
Pin 3	Triode Cathode	k_t
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Tetrode Anode	a_q
Pin 7	Tetrode, Screen Grid	g_s
Pin 8	Tetrode Control Grid	g_1
Pin 9	Tetrode Cathode, Beam Plates Shield	k_q, b_p, s

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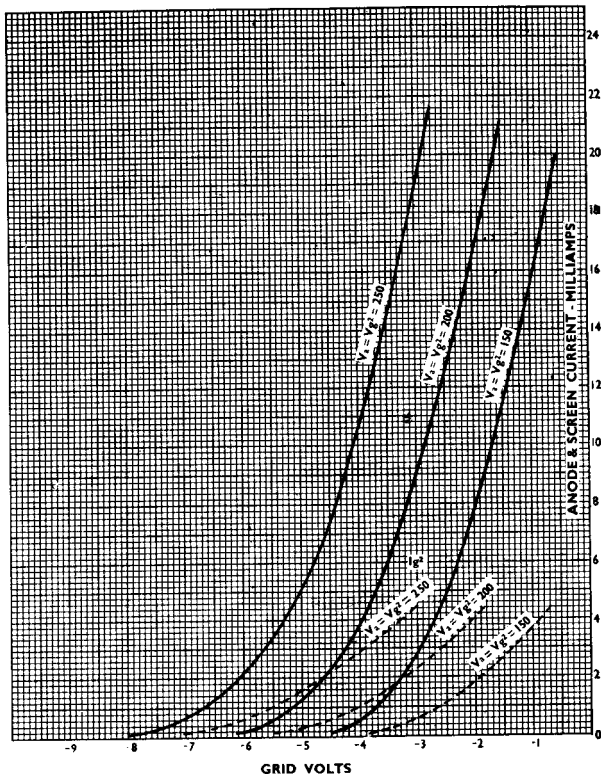
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AVERAGE CHARACTERISTIC CURVES



January, 1958

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