

**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	$\mu$		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 &amp; CRT DIVISION

Issue 2/2

SIEMENS EDISON SWAN LIMITED

30FL1

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**TENTATIVE**INTER-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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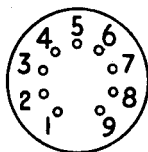
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MOUNTING POSITION—Unrestricted

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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30FL1

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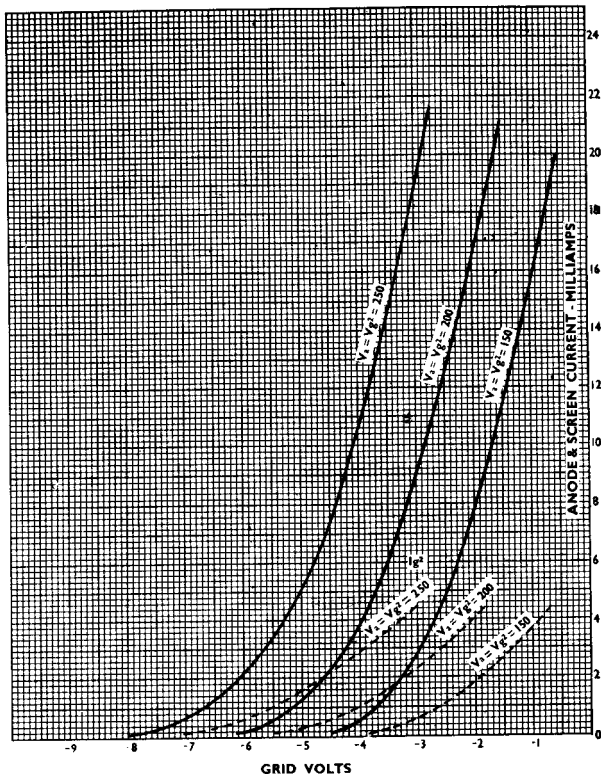
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### AVERAGE CHARACTERISTIC CURVES



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