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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 6CH6

DATE ISSUED 9.2.51.

6CH6

VIDEO AMPLIFIER PENTODE

The 6CH6 is a miniature type amplifier pentode employing the 9-pin glass button base. Its low anode to grid capacitance and high slope make it particularly useful for high frequency and broad band application as may be met in television video output stages.

It has a high peak cathode current which makes it eminently suitable for pulse applications. A separate grid 3 connection is provided so that this electrode may be operated at other than cathode potential.

MECHANICAL DATA:

Coated unipotential cathode.
Outline drawing ..... 6-3 Bulb T-6½
Base ..... E9-1 Small glass button 9-pin.
Maximum diameter ..... 7/8"
Maximum overall length ..... 2.5/8"
Maximum seated height ..... 2.3/8"
Pin connections ..... Basing No. ~~9BA~~ 9AU

Pin 1 - I.C.	Pin 6 - I.C.
Pin 2 - Grid No. 1	Pin 7 - Anode
Pin 3 - Cathode	Pin 8 - Grid No. 2
Pin 4 - Heater	Pin 9 - Grid No. 3
Pin 5 - Heater	

Mounting position ..... any

ELECTRICAL DATA:

Direct Inter-electrode capacitances:

Grid to anode ..... .25 pF max.
Input ..... 14 pF
Output ..... 5.0 pF
(External shield not used)

60050/100

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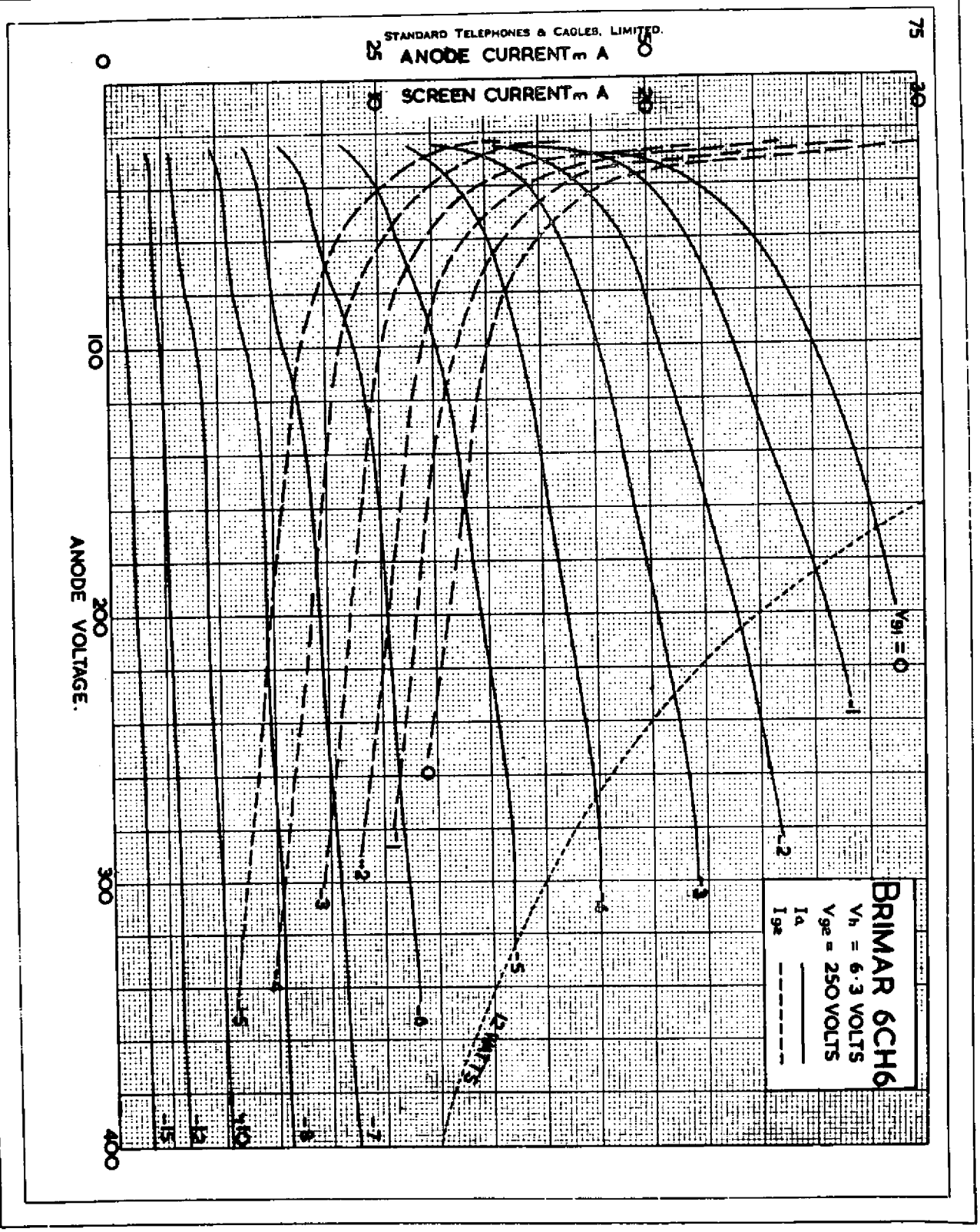
Ratings:

Heater voltage nominal (ac or dc)	6.3 volts
Maximum heater-cathode voltage	90 volts
Maximum anode voltage	275 volts
Maximum Grid No. 2 voltage	275 volts
Maximum anode dissipation	12 watts
Maximum Grid No. 2 dissipation	2.5 watts
Maximum bulb temperature	250°C
Peak instantaneous cathode current	1.5 amp

Typical operating conditions and characteristics:

Heater voltage	6.3 volts
Heater current	0.75 amp
Anode voltage	250 volts
Grid No. 2 voltage	250 volts
Grid No. 1 voltage	-4.5 volts
Grid No. 3 voltage	0 volts
Anode impedance	50,000 ohms
Transconductance	11,000µmhos
Anode current	40.0 mA
Grid No. 2 current	6.0 mA
Amplification factor (g2-g1)	26

60060/100A


STANDARD TELEPHONES & CABLES, LIMITED.
ANODE CURRENT m A
SCREEN CURRENT m A
ANODE VOLTAGE.
BRIMAR 6CH6
Vh = 6·3 VOLTS
Vg2 = 250 VOLTS
Ia
Ig2
Vg1 = 0
-1
-2
-3
-4
-5
-6
-7
-8
-10
-15
LIMITS