

# **XL601**

GLOW MODULATOR

#### INTRODUCTION

The XL601 is a cold cathode glow modulator tube with an international octal base. The hollow cathode contained in the tube provides a high ionization density and forms a compact light source with an equivalent luminous intensity of 0.27 candela at 30mA cathode current.

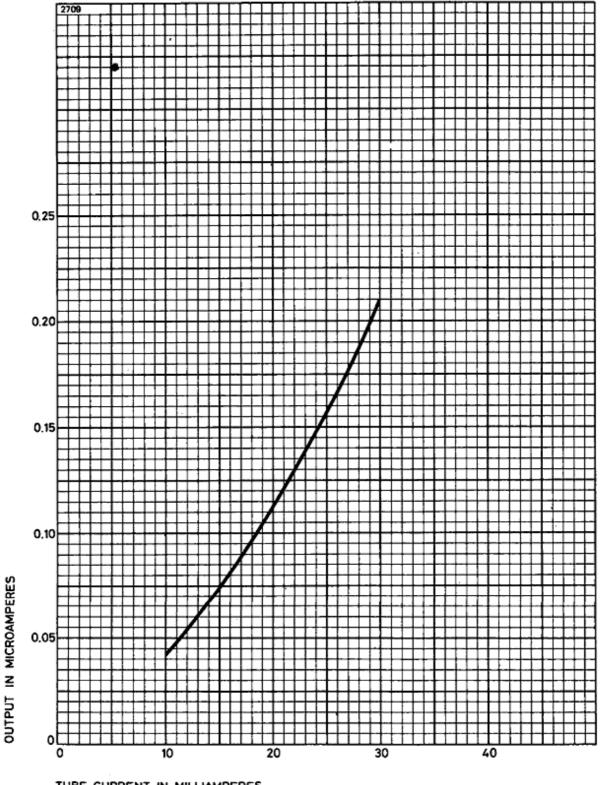
A particular feature of its characteristics is the substantially linear relationship between the light output and the cathode current. This, together with the high frequency and directional characteristics of the tube, makes the XL601 suitable for numerous industrial and communications applications, including facsimile equipments and photo-electric counters.

#### **GENERAL DATA**

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Maximum open circuit supply voltage	V V V MA MA
Modulating frequency range up to 10 <sup>6</sup>	Hz
Equivalent luminous intensity, blue-violet (at 30mA d.c.)*	cd cd/m² cd/in²
Colour of discharge mainly blue Average life (at 15mA d.c.)	
Mechanical	
Overall length	m) max
Overall diameter	
Light source (end viewing):	
diameter 0.025 inch (0.635mi	
distance from end of bulb 0.312 inch (7.93m	
Mounting position	any al octal
* The amount of blue-violet light emitted is equivalent to that of body with luminous intensity 0.27cd and colour temperature 2870° K.	

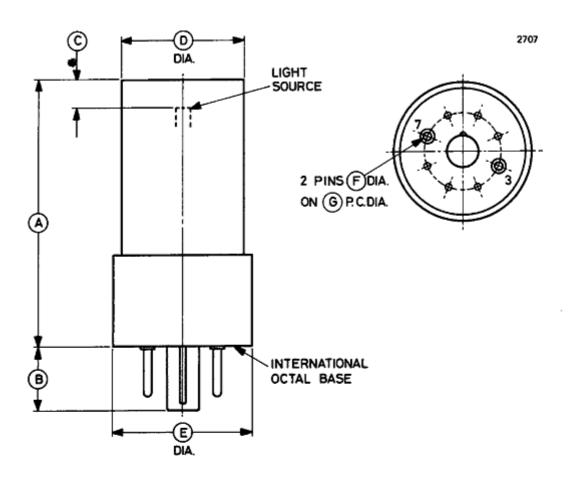
### TYPICAL LIGHT OUTPUT CHARACTERISTIC



TUBE CURRENT IN MILLIAMPERES

The light output of the glow modulator is expressed as the current through a type 929 photo tube with a Wratten C5 filter between the tubes, the glass envelopes of which are 0.562 inch (14.3mm) apart.

## **OUTLINE (All dimensions without limits are nominal)**



Ref	Inches	Millimetres	Pin	Element
Α	2.375 <u>+</u> 0.125	60.33 <u>+</u> 3.18	1	Omitted
В	0.560	14.22	2	Omitted
С	0.250 ± 0.063	6.35 ± 1.60	3	Cathode
D	1.142 max	29.01 max	4	Omitted
E	1.253 max	31.83 max	5	Omitted
F	0.093	2.36	6	Omitted
G	0.687	17.45	7	Anode
			8	Omitted

from inches.