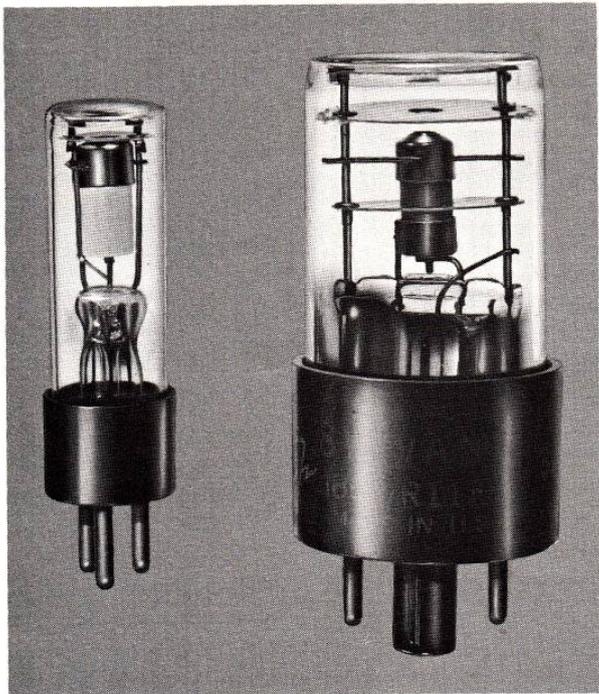


GLOW MODULATOR TUBES



Sylvania Glow Modulator Tubes are cold cathode light sources uniquely adaptable to high frequency modulation. As will be noted, an essentially linear relationship exists between light output and tube current providing a highly desirable characteristic for many applications.

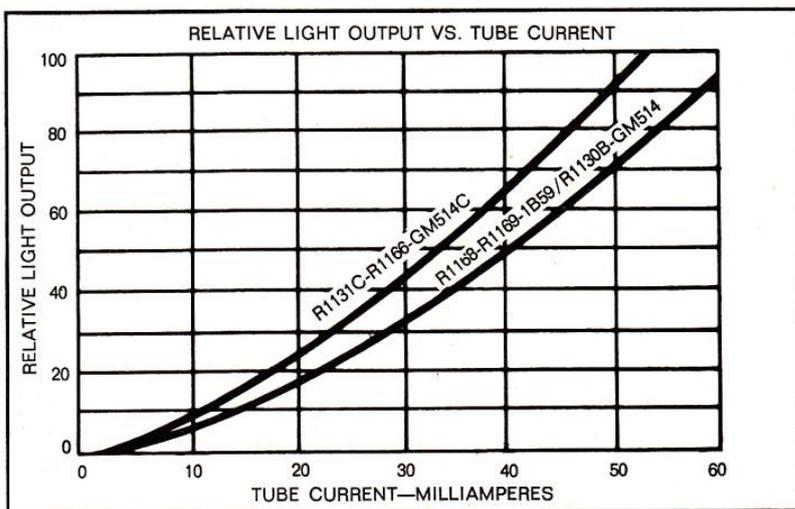
This unique and highly versatile light source has modulation capabilities in excess of one million cycles per second.

The cathode of this tube is a small hollow cylinder which provides high ionization density and a small concentrated light source useful in countless industrial, scientific and communication applications.

The Glow Modulator Tube was originally developed to meet the specialized requirements of the facsimile industry. Utilizing the modulative light characteristics of the tube, facsimile apparatus applies this light source as the recording element in the receiving apparatus. The photograph or other material to be transmitted by wire or radio circuits is first scanned by a beam of light with the resulting reflected beam being directed at a phototube. This operation provides current sensitive logic capable of short or long distance transmission. At the receiving station a Sylvania Glow Modulator tube acts as the "decoder" converting the current logic to modulated light which is directed upon and scans a sheet of photosensitive material, reproducing the original material.

The Glow Modulator Tube, because of its high actinic light output, high frequency capabilities and linear current-output characteristics has unusual applicational possibilities by no means limited to facsimile apparatus.

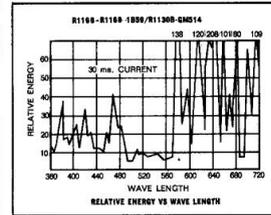
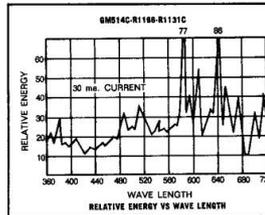
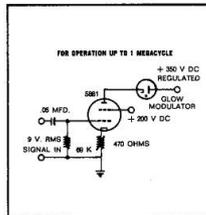
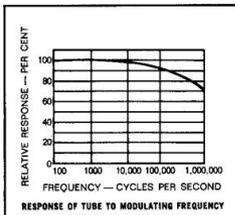
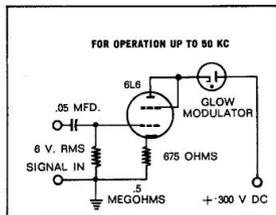
The GM 514 and GM 514C offer compactness for applications requiring the ultimate in present day miniaturization. These two types provide spectral characteristics similar to the standard sizes, but where maximum life is desired, standard sizes should be utilized.



THIS UNIQUE TUBE HAS PROVEN TO BE THE IDEAL LIGHT SOURCE FOR:

Facsimile Equipment
Oscillograph Timing Markers
Photo Wire Transmitters

Stroboscopes
Photo-electric Counters
Photo Engraving
Seismograph Recorders



GLOW MODULATOR SPECIFICATIONS

Type No.	Max. Oper. Voltage	Current Av. Peak	Min. Starting Voltage	Crater Dia. (inches)	Approx. L. C. L. (inches)	Light Output in Candlepower	Brightness in Candles/in ²	Rated Life (hours)	Base Type	Bulb Type	M. O. L. (inches)	Max. Dia. (inches)	Color of Discharge
GM-514	160	5-25 55	240	.056	1-3/4	.1 @ 25 ma	41 @ 25 ma	100 @ 15 ma	3-Pin Miniature*	T-4-1/2	2-5/8	41/64	Blue-Red
GM-514C	160	5-15 35	240	.093	1-3/4	.1 @ 15 ma	15 @ 15 ma	25 @ 10 ma	3-Pin Miniature*	T-4-1/2	2-5/8	41/64	White
1B59/R-1130B	150	5-35 75	225	.056	2	.13 @ 30 ma	43 @ 30 ma	250 @ 20 ma	Intermediate Shell Oct.**	T-9	3-1/16	1-9/32	Blue-Red
R-1131C	150	3-25 55	225	.093	2	.2 @ 25 ma	29 @ 25 ma	150 @ 15 ma	Intermediate Shell Oct.**	T-9	3-1/16	1-9/32	White
R-1166	150	3-25 55	225	.093	2	.2 @ 25 ma	29 @ 25 ma	150 @ 15 ma	Intermediate Shell Oct.**	T-9	3-1/16	1-9/32	White
R-1168	150	5-15 30	225	.015	2	.023 @ 15 ma	132 @ 15 ma	150 @ 15 ma	Intermediate Shell Oct.**	T-9	3-1/16	1-9/32	Blue-Red
R-1169	150	5-25 45	225	.025	2	.036 @ 15 ma	72 @ 15 ma	250 @ 15 ma	Intermediate Shell Oct.**	T-9	3-1/16	1-9/32	Blue-Red

NOTES: Type R-1166 is opaque coated with the exception of a circle 3/8" in diameter at end of lamp. All other types have clear finish bulb.

* Pin #1 and #3 Anode — Pin #2 Cathode
** Pin #7 Anode — Pin #3 Cathode