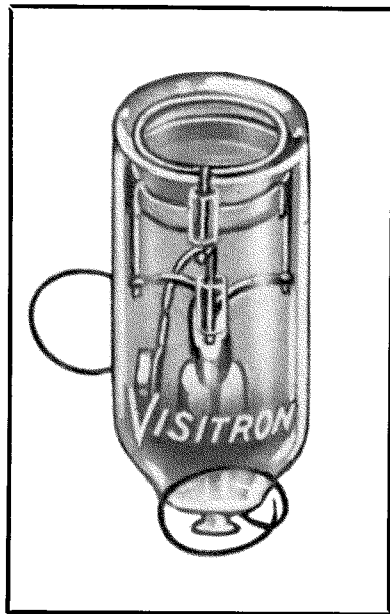




TYPE R50

R50 SERIES

This midget end view tube was designed for applications where space limitation is the controlling factor. Especially adaptable to extremely small electronic control devices.

Ideal in use of multiple phototube banks for controlling the moving pattern of electric signs.

This miniature tube fits perfectly with the compact designs of coin operated machines.

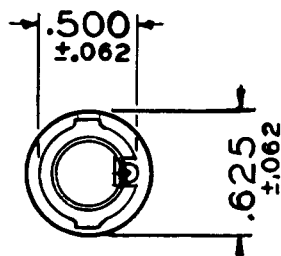
GENERAL CHARACTERISTICS

	R50A	R50AV
Cathode Surface	S1	S1
Cathode Size	.500" Dia.	.500" Dia.
Capacitance (Anode-Cathode)	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min.)	1000 Meg.	1000 Meg.

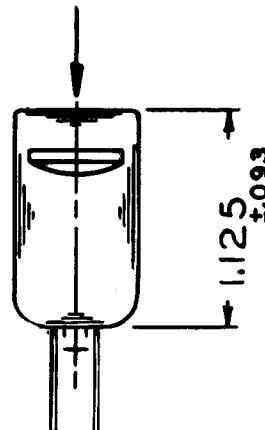
MAXIMUM RATINGS

	R50A	R50AV
Anode Voltage, Peak	90V	500V
Luminous Sensitivity	200 μ A/L DC	35 μ A/L DC
Luminous Sensitivity (25v)	30 μ A/L DC	30 μ A/L DC
Gas Amplification	10	---
Temperature, ambient	100°C	100°C

USABLE PLATE



DIRECTION OF LIGHT



VISITRON

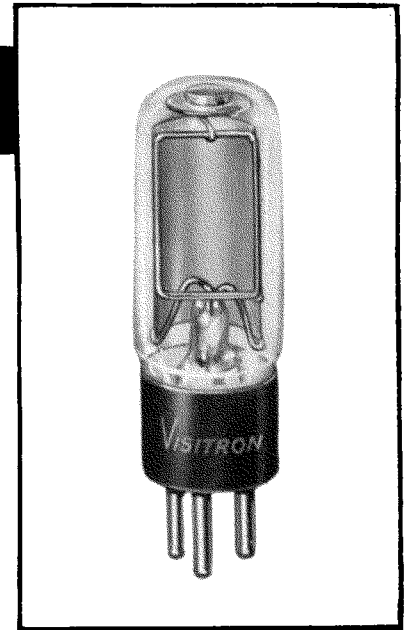
R51 SERIES

The rectangular anode of this tube offers no interference to the smallest of light sources, thus permitting a shadow-free cathode area. This particular Visitron is commonly used in portable 16 MM sound-on-film production equipment.

The R51 Series is supplied with two types of cathode surfaces, "A" type sensitive to infra-red and "B" type sensitive to blue.

The R51 blue sensitive Visitron phototubes have increased sensitivity to light sources predominating in blue radiation and a negligible sensitivity to infra-red radiation. This high sensitivity to blue radiation makes this tube particularly valuable for use in sound reproduction involving a dye-image sound track in conjunction with an incandescent light source. The R51B blue sensitive series are available on special order with non-hygroscopic ceramic bases.

The R51 Series is also available on special order with Corex D bulb for use in the ultra-violet region of the spectrum. These ultra-violet tubes are identified by the letter "C" (Example R51CV-2). Prices will be submitted upon application.



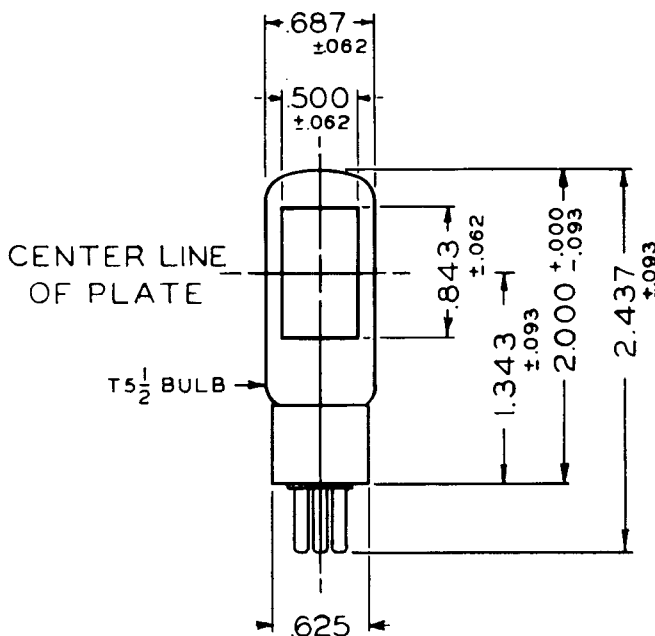
TYPE R51

GENERAL CHARACTERISTICS

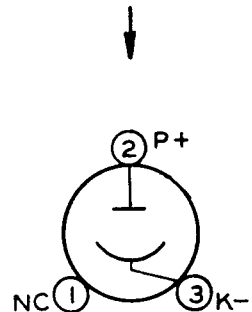
	R51A	R51AV	R51B	R51BV
Cathode Surface	S1	S1	S4	S4
Cathode Size	.843" x .500"	.843" x .500"	.843" x .500"	.843" x .500"
Capacitance (Anode-Cathode)	2.5 MMF.	2.0 MMF.	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min)	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

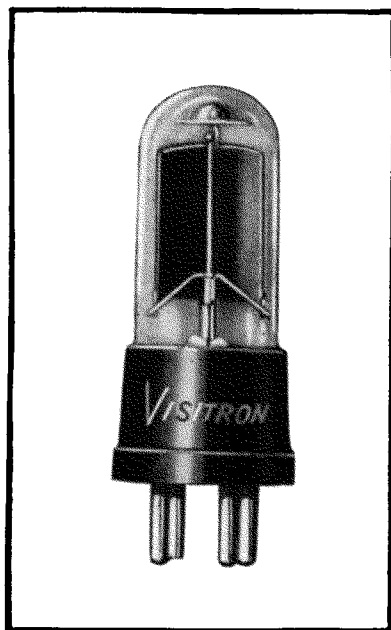
	R51A	R51AV	R51B	R51BV
Anode Voltage, Peak	90V	500V	90V	500V
Luminous Sensitivity	250 μ A/L DC	37 μ A/L DC	300 μ A/L DC	40 μ A/L DC
Luminous Sensitivity (25v)	35 μ A/L DC	35 μ A/L DC	40 μ A/L DC	37 μ A/L DC
Gas Amplification	12	- - -	10	- - -
Temperature, ambient	100°C	100°C	100°C	100°C



DIRECTION OF LIGHT



VISITRON



TYPE R58

R58 SERIES

A sturdy constructed tube designed to withstand shock and handling.

We recommend this tube to manufacturers developing new sound heads as the preferred type for use in portable 16 MM sound-on-film projection equipment.

The R58 series is exceptionally dependable when used in industrial electronic control equipment (such as counting, sorting, burglar alarms, smoke alarms, etc.)

R61 SERIES

The R61 Visitron phototube has the same general characteristics and maximum ratings as the R58 series but different physical characteristics. This tube is supplied with a five prong octal type base and a T9 bulb, dimensions are shown on drawing below.

The R61 series is supplied with two types of cathode surfaces, "A" type sensitive to infra-red and "B" type sensitive to blue.

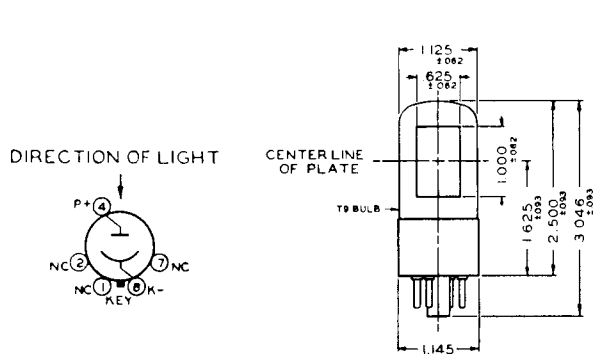
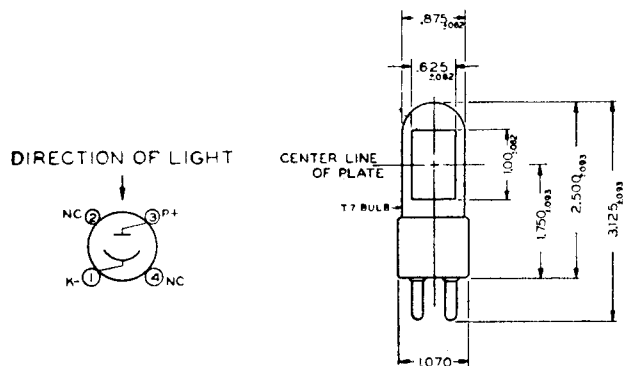
The exceptional high response to blue radiation and insignificant response to red radiation of the R61 blue sensitive tube makes it valuable in flame control work where it is desired that the tube respond to the flame and not to heated objects in it. The R61B series can be supplied on special order with non-hygroscopic ceramic bases.

GENERAL CHARACTERISTICS

	R58A	R58AV	R61A	R61AV	R61B	R61BV
Cathode Surface	S1	S1	S1	S1	S4	S4
Cathode Size	1.00" x .625"	1.00" x .625"	1.00" x .625"	1.00" x .625"	1.00" x .625"	1.00" x .625"
Capacitance (Anode-Cathode) ...	2.5 MMF.	2.0 MMF.	2.5 MMF.	2.0 MMF.	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min)	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R58A	R58AV	R61A	R61AV	R61B	R61BV
Anode Voltage, Peak	90V	500V	90V	500V	90V	500V
Luminous Sensitivity	225 μ A/L DC	40 μ A/L DC	225 μ A/L DC	40 μ A/L DC	250 μ A/L DC	45 μ A/L DC
Luminous Sensitivity (25v).....	40 μ A/L DC	35 μ A/L DC	40 μ A/L DC	35 μ A/L DC	40 μ A/L DC	40 μ A/L DC
Gas Amplification	8	- - -	8	- - -	8	- - -
Temperature, ambient	100°C	100°C	100°C	100°C	100°C	100°C



VISITRON

R59 SERIES

The R59 series tubes are widely used in theater sound projection equipment. This medium sized tube has long been prominent in 35 MM semi-portable systems. Its rugged dependability makes it exceptionally adaptable to industrial electronic equipment.

The R59 series is supplied with two types of cathode surfaces, "A" type sensitive to infra-red and "B" type sensitive to blue.

The blue sensitive Visitron tubes have a high response to blue radiation and insignificant response to red radiation. This tube will prove advantageous in sound reproductions involving a dye-image sound track in conjunction with an incandescent light source.

The R59 series is also available on special order with Corex D bulb for use in applications requiring response in the ultra-violet region. Among the many uses of this type tube are rapid and direct measurement of spectrum line intensities without recourse to photography and the measurement of ultra-violet intensities in biological and therapeutic work. These ultra-violet tubes are identified by the letter "C" (example R59CV-2). Price will be submitted upon application.



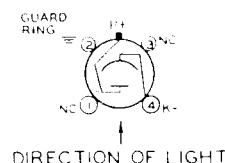
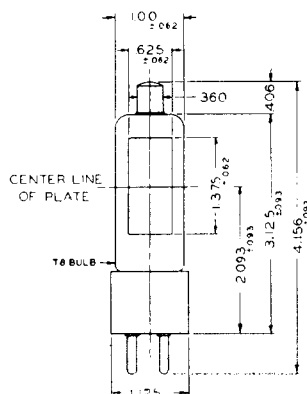
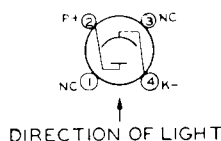
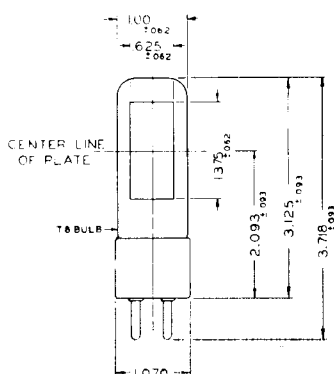
TYPE R59

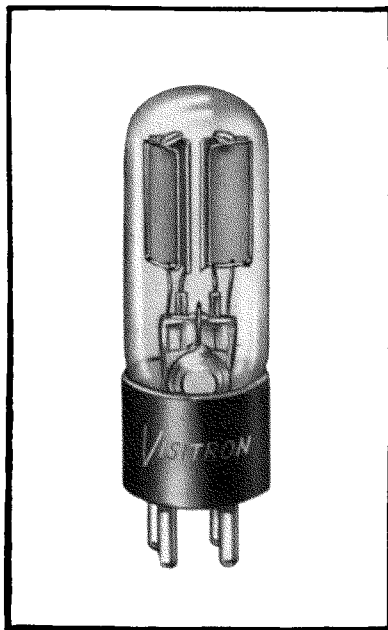
GENERAL CHARACTERISTICS

	R59A	R59AV	R59TA	R59TAV
Cathode Surface.....	S1	S1	S1	S1
Cathode Size.....	1.37" x .62"	1.37" x .62"	1.37" x .62"	1.37" x .62"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.	< .8 MMF.	< .7 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.
	R59B	R59BV	R59TB	R59TBV
Cathode Surface.....	S4	S4	S4	S4
Cathode Size.....	1.37" x .62"	1.37" x .62"	1.37" x .62"	1.37" x .62"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.	< .8 MMF.	< .7 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R59A	R59AV	R59TA	R59TAV
Anode Voltage, Peak.....	90V	500V	90V	500V
Luminous Sensitivity	225 uA/L DC	40 uA/L DC	225 uA/L DC	40 uA/L DC
Luminous Sensitivity (25v).....	40 uA/L DC	35 uA/L DC	40 uA/L DC	35 uA/L DC
Gas Amplification	8	- - -	8	- - -
Temperature, ambient	100°C	100°C	100°C	100°C
	R59B	R59BV	R59TB	R59TBV
Anode Voltage, Peak.....	90V	500V	90V	500V
Luminous Sensitivity	250 uA/L DC	45 uA/L DC	250 uA/L DC	45 uA/L DC
Luminous Sensitivity (25v).....	40 uA/L DC	40 uA/L DC	40 uA/L DC	40 uA/L DC
Gas Amplification	8	- - -	8	- - -
Temperature, ambient	100°C	100°C	100°C	100°C





TYPE R60

VISITRON

R60 SERIES

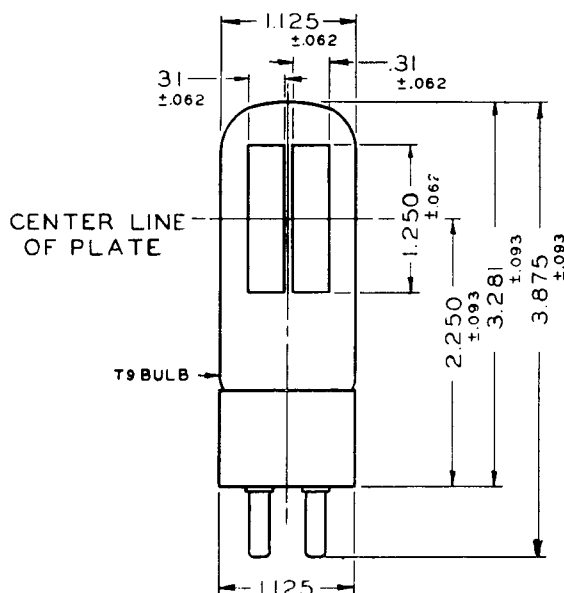
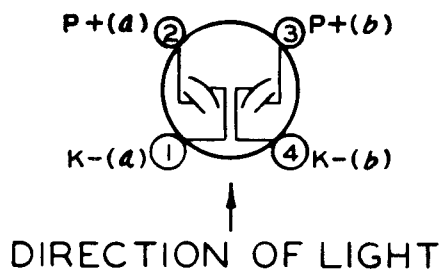
The R60 is a dual phototube with two cathodes and two anodes brought out to separate prongs. Designed primarily for dual sound track systems, it is also ideal wherever dual tube operation is required and space is a factor.

GENERAL CHARACTERISTICS

	R60A	R60AV
Cathode Surface.....	S1	S1
Cathode Size (each Cathode).....	1.250" x .310"	1.250" x .310"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R60A	R60AV
Anode Voltage, Peak.....	90V	500V
Luminous Sensitivity (ea. Cathode).....	175 μ A/L DC	37 μ A/L DC
Luminous Sensitivity (25v) (ea. Cathode).....	30 μ A/L DC	35 μ A/L DC
Gas Amplification.....	10	- - -
Temperature, ambient.....	100°C	100°C



VISITRON

R64 SERIES

A rugged, dependable tube in a short glass envelope. This tube is recommended for industrial light operated relay and measurement applications where space is a limiting factor.



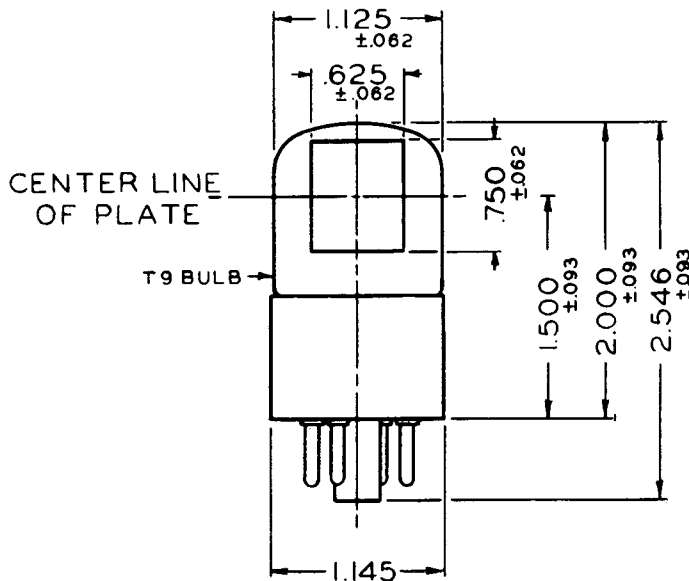
TYPE R64

GENERAL CHARACTERISTICS

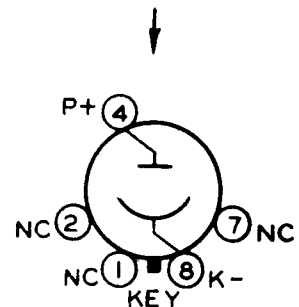
	R64A	R64AV
Cathode Surface.....	S1	S1
Cathode Size.....	.750" x .265"	.750" x .265"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.

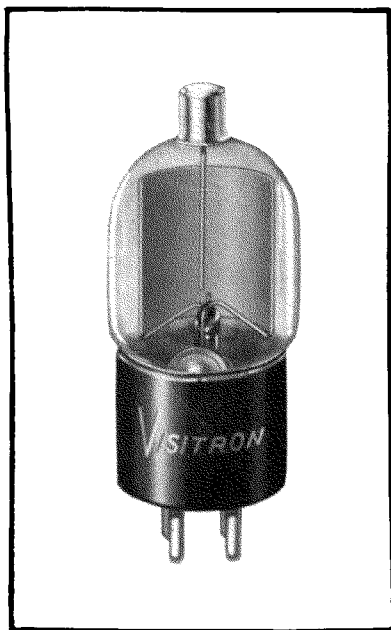
MAXIMUM RATINGS

	R64A	R64AV
Anode Voltage, Peak.....	90V	500V
Luminous Sensitivity.....	200 μ A/L DC	37 μ A/L DC
Luminous Sensitivity (25v).....	35 μ A/L DC	35 μ A/L DC
Gas Amplification.....	10	- -
Temperature ambient.....	100°C	100°C



DIRECTION OF LIGHT





TYPE R71T

VISITRON

R71 SERIES

One of the most commonly used Visitron phototubes of today, the R71 series is universally accepted as THE phototube to use where dependability and long trouble-free operation is desired. Recommended as ideal for sound-on-film applications. When used for this purpose this tube is exceptionally free from tube noises and microphonics.

The R71 tube is also used extensively in electronic control equipment for weighing, conveyor, illumination controls, smoke and turbidity measurement controls, safety devices, etc.

The R71 series is supplied with two types of cathode surfaces, "A" type sensitive to infra-red and "B" type sensitive to blue.

The exceptional high response to blue radiation and insignificant response to red radiation of the R71 blue sensitive tube makes it valuable in flame control work where it is desired that the tube respond to the flame and not to heated objects in it.

The R71 series is also available on special order with Corex D bulb for use in the ultra-violet region of the spectrum. These ultra-violet tubes are identified by the letter "C" (example R71CV-2). Prices will be submitted upon application.

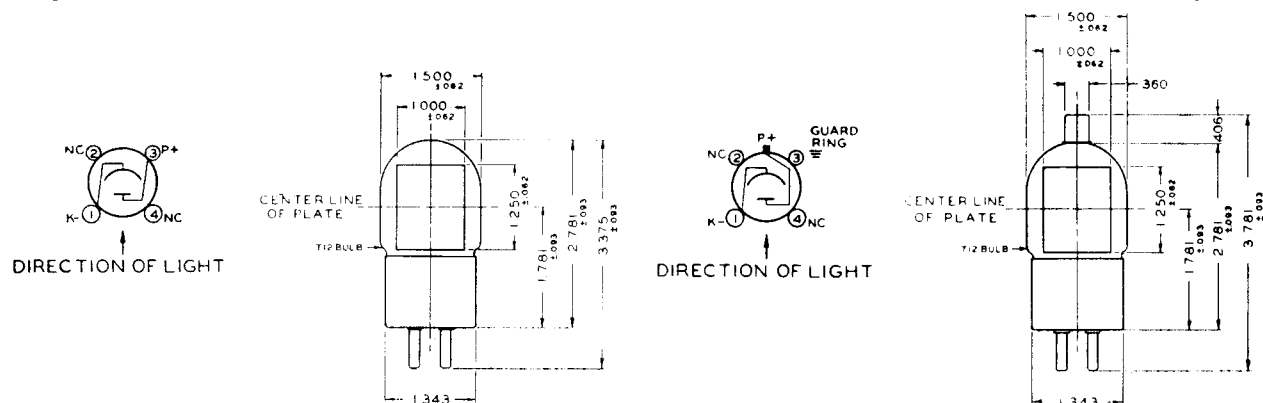
Series R71T tubes with anode cap are supplied with non-hygroscopic ceramic bases. The R71B series can also be supplied on special order with non-hygroscopic ceramic bases.

GENERAL CHARACTERISTICS

	R71A	R71AV	R71TA	R71TAV
Cathode Size.....	S1	S1	S1	S1
Cathode Surface.....	1.25" x 1.0"	1.25" x 1.0"	1.25" x 1.0"	1.25" x 1.0"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.	< .8 MMF.	< .7 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.
	R71B	R71BV	R71TB	R71TBV
Cathode Size.....	S4	S4	S4	S4
Cathode Surface.....	1.25" x 1.0"	1.25" x 1.0"	1.25" x 1.0"	1.25" x 1.0"
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.	< .8 MMF.	< .7 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R71A	R71TAV	R71TA	R71TAV
Anode Voltage, Peak.....	90V	500V	90V	500V
Luminous Sensitivity.....	250 uA/L DC	40 uA/L DC	250 uA/L DC	40 uA/L DC
Luminous Sensitivity (25v).....	45 uA/L DC	37 uA/L DC	45 uA/L DC	37 uA/L DC
Gas Amplification.....	8	- - -	8	- - -
Temperature, ambient.....	100°C	100°C	100°C	100°C
	R71B	R71BV	R71TB	R71TBV
Anode Voltage, Peak.....	90V	500V	90V	500V
Luminous Sensitivity.....	300 uA/L DC	55 uA/L DC	300 uA/L DC	55 uA/L DC
Luminous Sensitivity (25v).....	50 uA/L DC	50 uA/L DC	50 uA/L DC	50 uA/L DC
Gas Amplification.....	8	- - -	8	- - -
Temperature, ambient.....	100°C	100°C	100°C	100°C



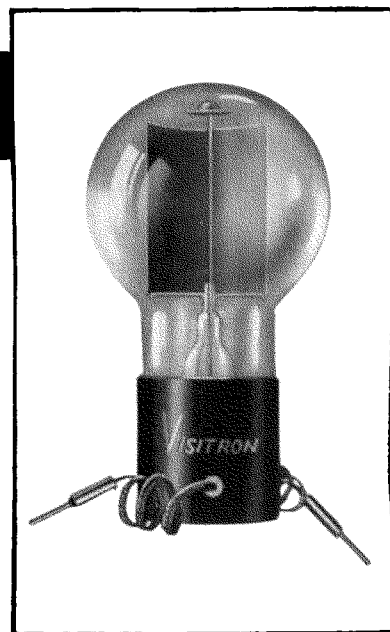
VISITRON

R79 SERIES

The Visitron R79 is a tube having an extra large cathode designed for a maximum area of light beam, commonly used in standard theatre projection equipment. A sturdy tube to give constant quality performance.

R78 SERIES

Identical to the R79 series in electrical and physical characteristics but equipped with a large four prong base instead of flexible leads.



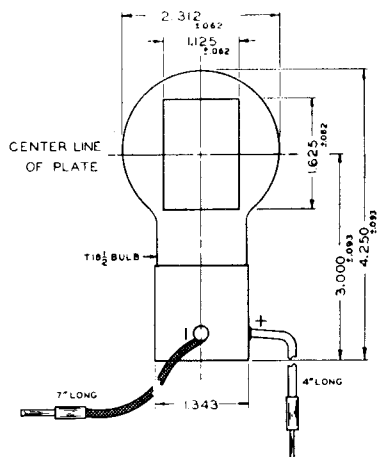
TYPE R79

GENERAL CHARACTERISTICS

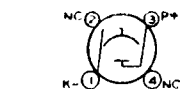
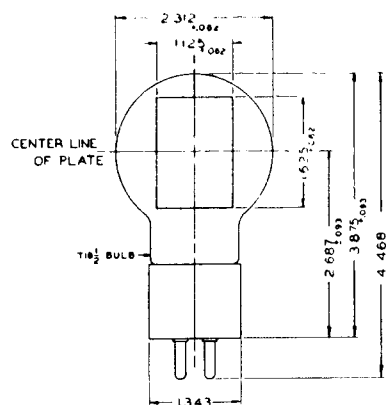
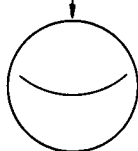
	R78A	R78AV	R79A	R79AV
Cathode Surface	S1	S1	S1	S1
Cathode Size	1.625"x1.125"	1.625"x1.125"	1.625"x1.125"	1.625"x1.125"
Capacitance (Anode-Cathode)	2.5 MMF.	2.0 MMF.	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min)	1000 Meg.	1000 Meg.	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R78A	R78AV	R79A	R79AV
Anode Voltage, Peak	90V	500V	90V	500V
Luminous Sensitivity	225 μ A/L DC	40 μ A/L DC	225 μ A/L DC	40 μ A/L DC
Luminous Sensitivity (25v)	40 μ A/L DC	35 μ A/L DC	40 μ A/L DC	35 μ A/L DC
Gas Amplification	8	- - -	8	- - -
Temperature, ambient	100°C	100°C	100°C	100°C



DIRECTION OF LIGHT



DIRECTION OF LIGHT

VISITRON

R85 SERIES

A non-directional Visitron Phototube having a 360° pickup. Features an increased sensitivity due to utilization of all energy from the light source. Ideal wherever multi-directional applications are employed such as electronic operated target games, multiple beam burglar and fire alarms, etc.



TYPE R85

GENERAL CHARACTERISTICS

	R85A	R85AV
Cathode Surface.....	S1	S1
Cathode Size.....	1.000" x .500" (from 360°)	1.000" x .500" (from 360°)
Capacitance (Anode-Cathode).....	2.5 MMF.	2.0 MMF.
Leakage Resistance (Min).....	1000 Meg.	1000 Meg.

MAXIMUM RATINGS

	R85A	R85AV
Anode Voltage, Peak.....	90V	500V
Luminous Sensitivity.....	175 uA/L DC	40 uA/L DC
Luminous Sensitivity (25v).....	40 uA/L DC	37 uA/L DC
Gas Amplification.....	8	---
Temperature, ambient.....	100°C	100°C

DIRECTION OF LIGHT
360°

