

Layout Pcb Design



Catalog Quartz Lamps

1/2011 Ver1.0

Low pressure lamps
High pressure lamps
Infrared lamps



Quartz LAMPS

An important thing to know is that Ultraviolet is not a single entity, but is a wide band of wavelengths.

The chief natural source of UV is the sun. In fact, about 9% of all energy emitted by the sun is UV, it differs from the light of the sun only in that its wavelengths are too short to be seen by the human eye.

Ultraviolet radiation is part of the electromagnetic spectrum and it is included between the visible region and that of the X rays.

Ultraviolet radiation applications are very widespread and varied, it is used in many areas ranging from the medical and biotechnology fields to the automotive and electronics industries.

The different band of wave length of the ultraviolet spectrum show considerable variations, for this reasons it is divided in thee regions:

- **UV-A 400-320 nm Long waves**
- **UV-B 320-290 nm Medium wave**
- **UV-C 290-180 nm Short waves**

Quartz lamps are divided in:

- **Low pressure lamps**
 - **Ozon lamps** **Page 3-15**
 - **Germicidal lamps** **Page 16-26**
 - **Douple-Tube Germicidal lamps** **Page 27-28**
- **High pressure lamps;**
 - **Lamps for special purposes** **Page 29-31**
- **Infrared lamps;** **Page 32-37**
- **Quartz Tubes;** **Page 38-40**

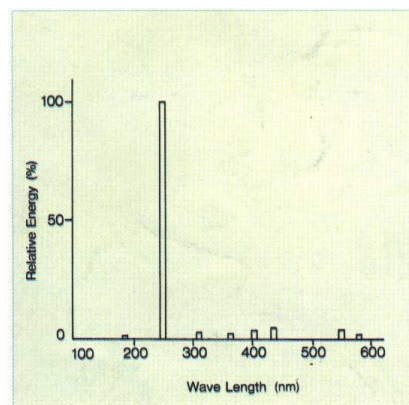
OZONE QUARTZ LAMPS

ozone low-pressure mercury lamps emit part of their radiated energy under a shortwave UV at 184.9nm which produce ozone.

Application:

The ozone lamps are used in sterilization of surgical equipment, purification of water and of swimming pools, sterilization of sewage, treatment of industrial wastes, Air pollution, to eliminate odours, for surface treatments, bleaching of papers, bleaching of textile fibers, purification of mineral oils.

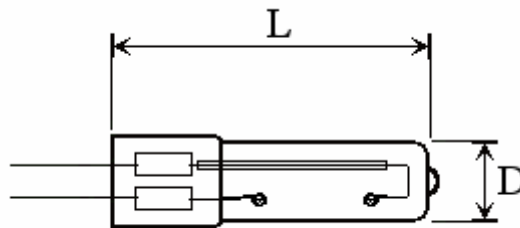
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Spectral Energy distribution

OZONE QUARTZ LAMPS

Lamp Type: O3S



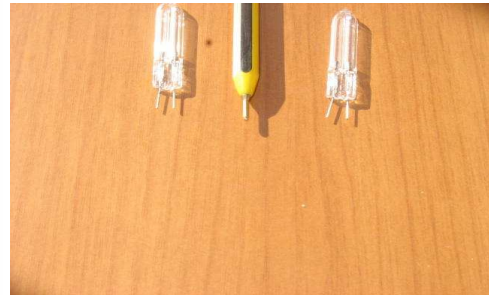
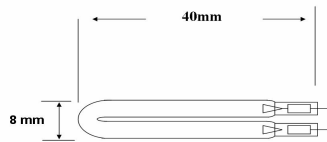
Data Sheet								
Code	Wattage W	Lamp Curent mA	Lamp Voltage V	UV Output W	μWcmq	Length L mm	Diameter D mm	Average Life Hrs
LPD O3S	3	50	6	0,5	5,4	40	10	3.000

UV rays lamps are produced with very pure quartz glass, these low- pressure mercury lamps emit part of their radiated energy at 184.9 nm which produce ozone.
The ozone lamps have many uses: sterilization of chirurgical equipments, purification of water, sterilization of sewage, treatment of industrial wastes

Warning: uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

OZONE QUARTZ LAMPS

Lamp Type: O3-U



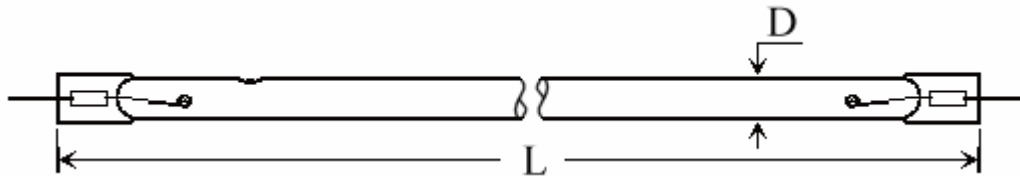
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Code	Wattage W	Lamp Curent mA	Lamp Voltage V	UV Output W	μWcmq	Length L mm	Diameter D mm	Average Life Hrs
LPD 03uw1,5D4L	1,5	10	600	0,5	5,4	40	4x8	9.000

UV rays lamps are produced with very pure quartz glass, these low- pressure mercury lamps emit part of their radiated energy at 184.9 nm which produce ozone. The ozone lamps have many uses: sterilization of chirurgical equipments, purification of water, sterilization of sewage, treatment of industrial wastes

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OZONE QUARTZ LAMPS

Lamp Type:LPD O3DS



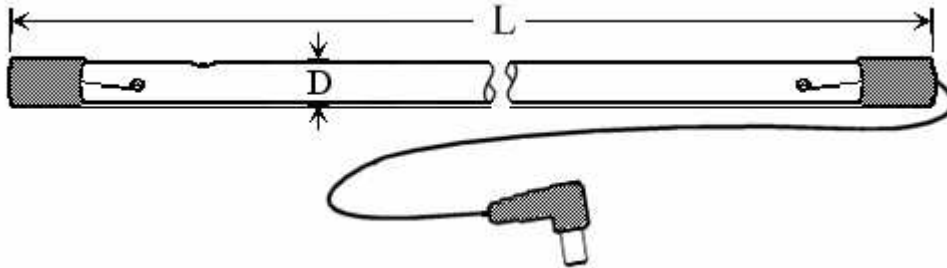
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Code	Wattage W	Lamp Current mA	UV Output W	Length L mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
LPD O3DSW10D10L	10	170	1.2	170	10	0.6	8000
LPD O3DSW12D10L	12	425	3,2	240	10	0.8	8000
LPD O3DSW22D15L	22	425	7,3	420	15	2,0	8000
LPD O3DSW40D15L	40	425	14,3	825	15	4,5	8000
LPD O3DSW75D15L1	75	425	30	1530	15	7,2	8000



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OZONE QUARTZ LAMPS

Lamp Type:LPD O3DS-1



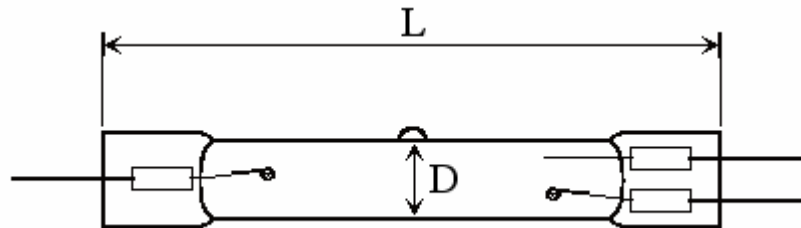
Data Sheet							
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LPD O3DSW10D10L170	10	170	1.2	170	10	0.6	8000
LPD O3DSW12D10L240	12	425	3,2	240	10	0.8	8000
LPD O3DSW22D15L420	22	425	7,3	420	15	2,0	8000
LPD O3DSW40D10L825	40	425	14,3	825	15	4,5	8000
LPD O3DSW75D15L1530	75	425	30	1530	15	7,2	8000



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OZONE QUARTZ LAMPS

Lamp Type: LPDO3DAS



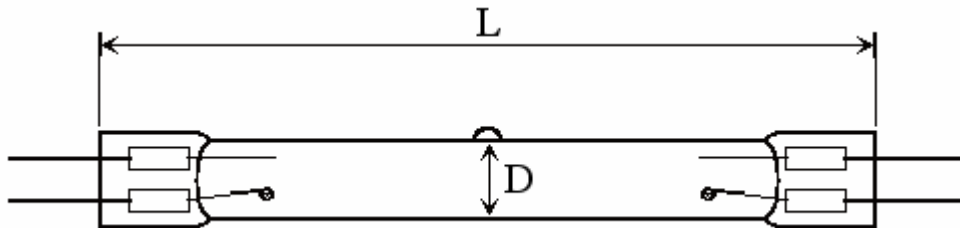
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Code	Wattage W	Lamp Curent mA	UV Output W	Length L mm	Diameter D mm	Ozone Output mg/h	Average Life Hrs
LPD O3DASW4D12L7	4	170	0,70	70	10	8,0	8000
LPD O3DASW5D10L8	5	170	0,80	80	10	9,5	8000
LPD O3DASW6D10L11	6	170	0,95	100	10	13,0	8000
LPD O3DASWD10L15	10	425	2,0	150	10	19,0	8000



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OZONE QUARTZ LAMPS

Lamp Type: LPDO3DA



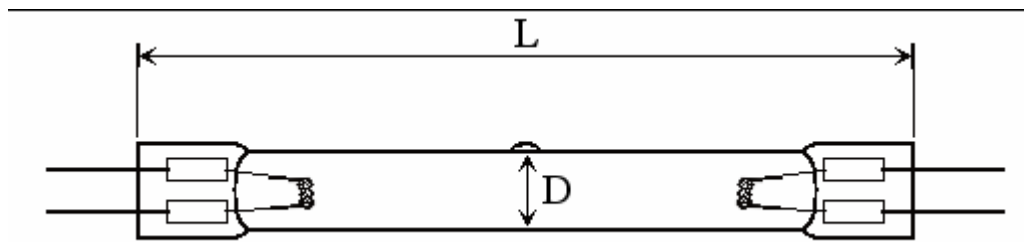
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Code	Wattage W	Lamp Curent mA	UV Output W	Length L mm	Diameter D mm	Ozone Output mg/h	Average Life Hrs
LPD O3DAW4D12L70	4	170	0.70	70	10	8,0	8000
LPD O3DAW5D10L80	5	170	0.8	80	10	9,5	8000
LPD O3DAW6D10L100	6	170	0.95	100	10	13,0	8000
LPD O3DAW8D10L120	8	170	1.2	120	10	15,0	8000
LPD O3DAW10D10L150	10	425	2,0	150	10	19,0	8000
LPD O3DAW10D10L200	10	425	2.5	200	10	24	8000



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OZONE QUARTZ LAMPS

Lamp Type: LPD O3DP



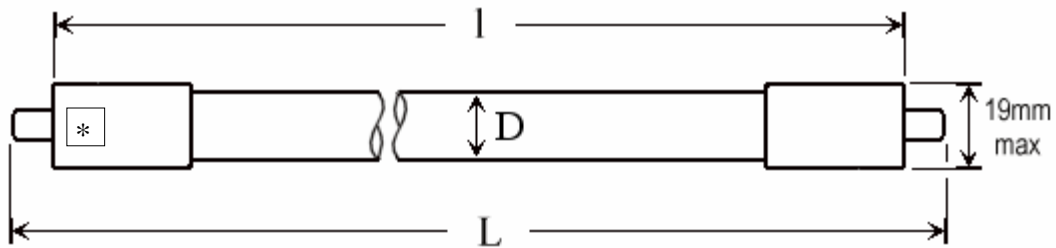
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Code	Wattage W	Lamp Current mA	UV Output W	Length L mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
LPD O3DPW8D13L1	8	170	1.16	106	13	0.4	8000
LPD O3DPW16D13L1	16	425	2.50	200	13	0.8	8000



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OZONE QUARTZ LAMPS

Lamp Type:LPD O3DP-P1



* Ceramic or PTFE Lamp bases

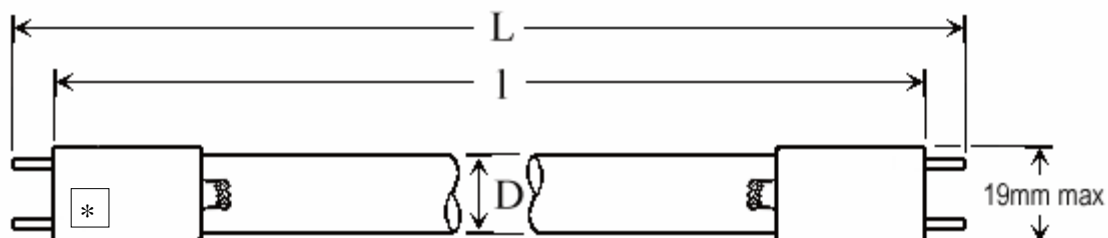
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Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
LPD 03DPW5D15L135F	5	170	30	1,2	135	15	0,2	8000
LPD 03DPW6D15L150F	6	170	35	1,5	150	15	0,4	8000
LPD 03DPW10L15L212I	10	425	25	2,7	212	15	0,6	8000
LPD 03DPW10D15L234I	10	425	25	3,0	234	15	0,8	8000
LPD 03DPW11D15L237I	11	425	27	3,1	237	15	0,9	8000
LPD 03DPW12D15L265I	12	425	29	3,4	265	15	1,1	8000
LPD 03DPW14D15L287I	14	425	34	4,0	287	15	1,2	8000
LPD 03DPW16D15L357	16	425	38	5,3	357	15	1,4	8000
LPD 03DPW18D15L385I	18	425	40	5,8	385	15	1,6	8000
LPD 03DPW21D15L436I	22	425	51	7,3	436	15	2,0	8000
LPD 03DPW25D16L538I	25	425	60	8,5	538	15	2,3	8000
LPD 03DPW30D15L690I	30	425	72	11,2	690	15	3,0	8000
LPD 03DPW38D15L793I	38	425	90	13,5	793	15	3,4	8000
LPD 03DPW40D15L842	40	425	98	14,3	842	15	3,7	8000
LPD 03DPW45D15L868I	45	425	110	15,6	868	15	4,1	8000
LPD 03DPW50D15L114E	50	425	120	19,3	1148	15	5,2	8000
LPD 03DPW75D15L155C	75	425	179	30,0	1553	15	7,2	8000
LPD 03DPW80D15L163C	80	425	189	32,0	1630	15	7,4	8000



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OZONE QUARTZ LAMPS

PD Lamp Type: O3DP-P2



* Ceramic or PTFE Lamp bases

Data Sheet

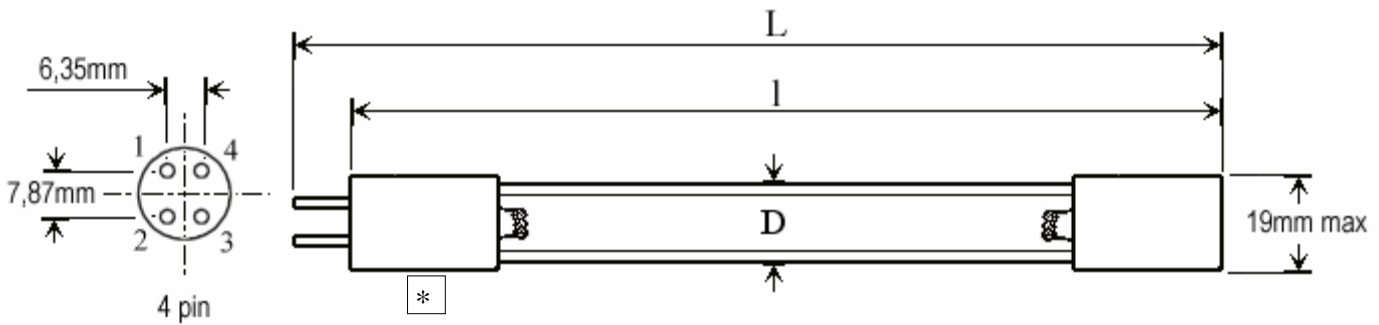
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
0	3	4	170	24	135	15	0,2	8000
LPD O3DPW10D15L212P2	8	170	48	2,1	212	15	0,6	8000
DPW14D15L287P203	14	425	34	3,0	287	15	1,2	8000
O3DPW16D15L331P2	16	425	38	4,5	331	15	1,4	8000
O3DPW21D15L436P1	22	425	51	6,3	436	15	2,0	8000
O3DPW25D16L589P2	25	425	60	8,5	589	15	3,9	8000
O3DPW39D15L842P2	39	425	92	18,8	842	15	4,0	8000
O3DPW40D15L894P2	40	425	95	20,0	894	15	4,5	8000
O3DPW45D15L1199P2	46	425	110	22,3	1199	15	5,2	8000
O3DPW75D15L1553P2	75	425	180	30,0	1553	15	7,2	8000
O3DPW80D15L1630P2	80	425	190	34,2	1630	15	7,4	000



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OZONE QUARTZ LAMPS

Lamp Type: O3DP-P4

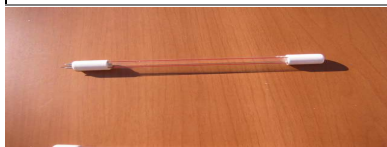


Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

Data Sheet

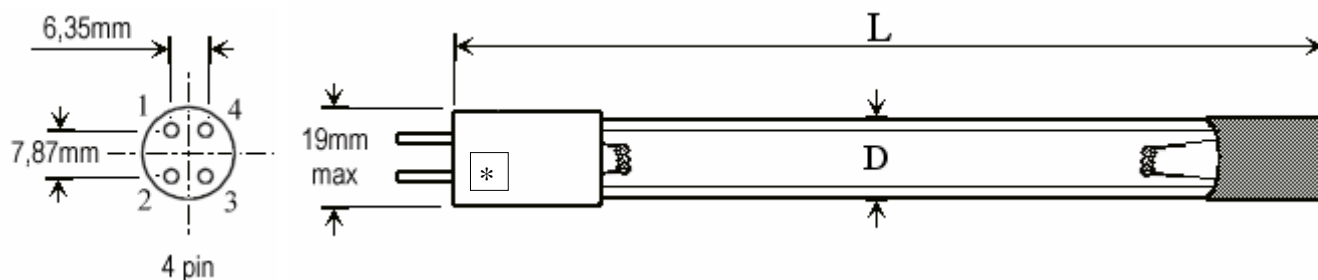
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW8D13L135P4	5	170	30	1.2	135	15	0.3	8000
O3DPW6D15L150P4	6	170	35	1,5	150	15	0,7	8000
O3DPW10D15L212P4	10	425	25	2,7	212	15	0,6	8000
O3DPW12D15L234P4	10	425	26	3,0	234	15	0,8	8000
O3DPW11D15L237P4	11	425	27	3,1	237	15	0,9	8000
O3DPW12D15L265P4	12	425	29	3,4	265	15	1,1	8000
O3DPW14D15L287P4	14	425	34	4.0	287	15	2.0	8000
O3DPW16D15L362P4	16	425	38	5,3	365	15	1,4	8000
O3DPW18D15L385P4	18	425	40	5,8	385	15	1,6	8000
O3DPW22D15L436P4	22	425	51	7,3	456	15	2,0	8000
O3DPW25D15L538P4	25	425	60	8,5	538	15	2,3	8000
O3DPW30D15L650P4	30	425	72	11,2	650	15	3,0	8000
O3DPW30D15L690P4	30	425	72	11,2	690	15	3,2	8000
O3DPW38D15L793P4	38	425	90	13,5	793	15	3,4	8000
O3DPW40D15L842P4	40	425	98	14,3	842	15	3,7	8000
O3DPW45D15L868P4	45	425	110	15,6	868	15	4,1	8000
O3DPW50D15L1148P4	50	425	120	19,3	1148	15	5,2	8000
O3DPW75D15L1553P4	75	425	179	30	1553	15	7,2	8000
O3DPW80D15L1630P4	80	425	190	32	1630	15	7,4	8000



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OZONE QUARTZ LAMPS

Lamp Type: O3DP-P41



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

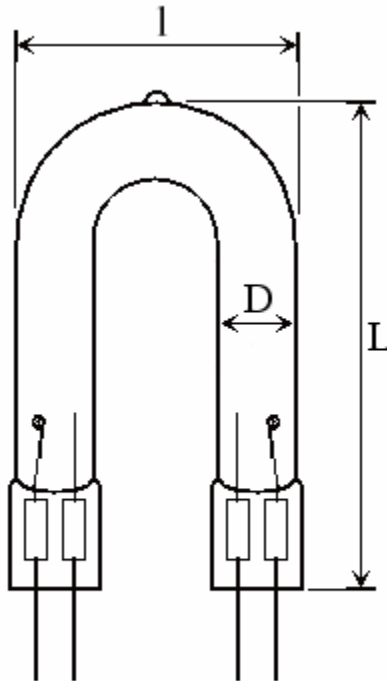
Data Sheet								
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW6D15L120P4-1	5	170	30	1.2	120	15	0.2	8000
O3DPW10D15L200P4-1	10	425	25	2.7	200	15	0.6	8000
O3DPW14D15L270P4-1	14	425	34	4.0	270	15	1.2	8000
O3DPW16D15L350P4-1	16	425	38	5.3	350	15	1.4	8000
O3DPW22D15L420P4-1	22	425	51	7.3	420	15	2.0	8000
O3DPW30D15L640P4-1	30	425	72	11.2	640	15	3.0	8000
O3DPW40D15L830P4-1	40	425	98	14.3	830	15	3.7	8000
O3DPW50D15L1135P4-1	50	425	120	19.3	1135	15	5.2	8000
O3DPW75D15L1540P4-1	75	425	179	30	1540	15	7.2	8000



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OZONE QUARTZ LAMPS

Lamp Type: O3UA



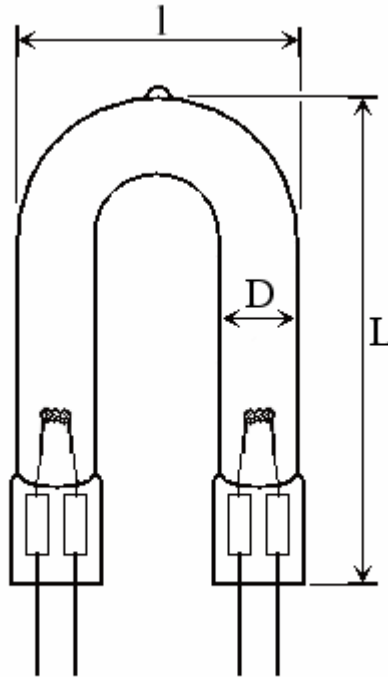
Data Sheet								
Code	Wattage W	Lamp Curent mA	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3UAW5D10L45	5	170	1.5	45	38	10	0.2	8000
O3UAW6D10L70	6	425	2.0	70	40	10	0,3	8000
O3UAW12D15L125	12	425	8,5	125	40	15	1,2	8000
O3UAW16D15L430	40	425	13,1	430	40	15	4.2	8000
O3UAW60D15L815	75	425	25,5	815	40	15	7,5	8000



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OZONE QUARTZ LAMPS

Lamp Type: O3UP



Data Sheet								
Code	Wattage W	Lamp Current mA	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3UPW5D10L45	5	170	1,5	45	38	10	0.2	8000
O3UPW6D10L70	6	425	2,0	70	40	10	0.3	8000
O3UPW8D10L150	10	425	6,0	150	40	10	1,9	8000
O3UPW30D15L430	40	425	15,6	430	40	15	4,2	8000
O3UPW75D13L815	75	425	32	815	40	15	7,5	8000



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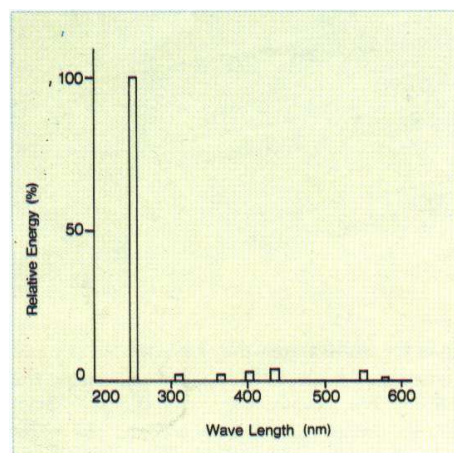
GERMICIDAL QUARTZ LAMPS

germicidal lamps are produced with very pure quartz glass. The special properties of this material allow to the TQI lamps the higher reflection of uv rays.

Application: the germicidal lamps emit uv rays at 254nm and are employed for killing and deactivating bacterium, virus and other primitive organisms.

They are mainly used for water sterilization, air treatments, food work surfaces treatments, food containers sterilization ,EPROM blanking.

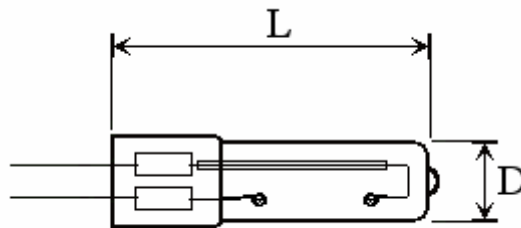
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GLUP	26
GLBTA-P4 BI-TUBE	27
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Spectral Energy distribution

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLM



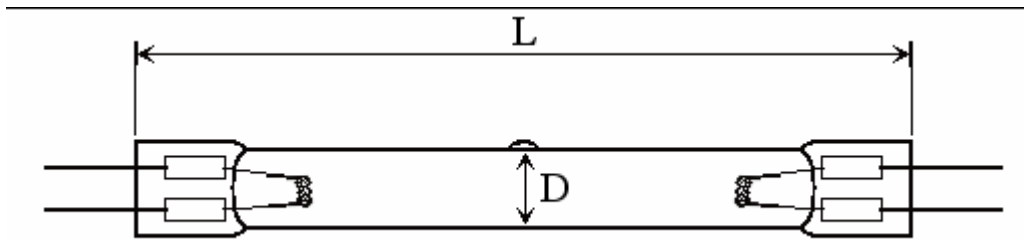
Data Sheet								
Code	Wattage W	Lamp Curent mA	Lamp Voltage V	UV Output W	μWcmq	Length L mm	Diameter D mm	Average Life Hrs
GLM	3	50	6	0,5	5,4	40	10	3.000



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GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDP



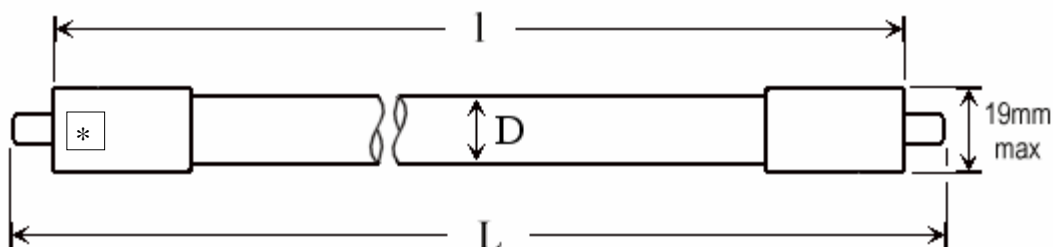
Data Sheet						
Code	Wattage W	Lamp Current mA	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDPW8D13L106	8	170	1.16	106	13	8000
GLDPW16D13L200	16	425	2.50	200	13	8000



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GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDP-P1



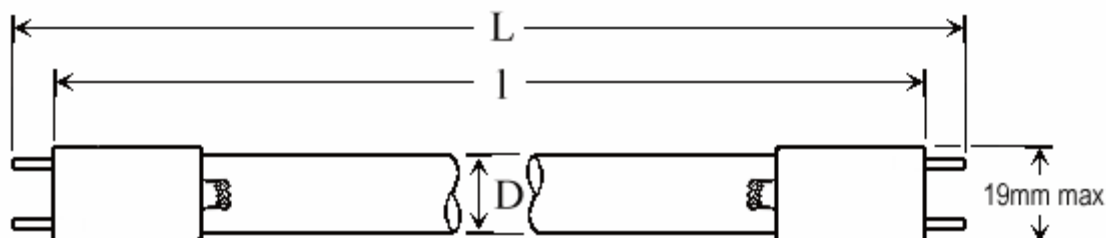
* Ceramic or PTFE Lamp bases

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Average Life Hrs
GLDPW5D15L135P1	5	170	30	1,2	135	15	8000
GLDPW6D15L150P1	6	170	35	1,5	150	15	8000
GLDPW10D15L212P1	10	425	25	2,7	212	15	8000
GLDPW10D15L234P1	10	425	25	3,0	234	15	8000
GLDPW11D15L237P1	10	425	27	3,1	237	15	8000
GLDPW12D15L265P1	12	425	29	3,4	265	15	8000
GLDPW14D15L287P1	14	425	34	4,0	287	15	8000
GLDPW16D15L357P1	16	425	38	5,3	357	15	8000
GLDPW18D15L385P1	18	425	40	5,8	385	15	8000
GLDPW21D15L436P1	21	425	51	7,3	436	15	8000
GLDPW25D15L538P1	25	425	60	8,5	538	15	8000
GLDPW30D15L690P1	30	425	72	11,2	690	15	8000
GLDPW38D15L793P1	38	425	90	13,5	793	15	8000
GLDPW40D15L842P1	40	425	98	14,3	842	15	8000
GLDPW45D15L868P1	45	425	110	15,6	868	15	8000
GLDPW50D15L1148P1	50	425	120	19,3	1148	15	8000
GLDPW75D15L1553P1	75	425	180	30,0	1553	15	8000
GLDPW80D15L1630P1	80	425	190	32,0	1630	15	8000

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GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDP-P2



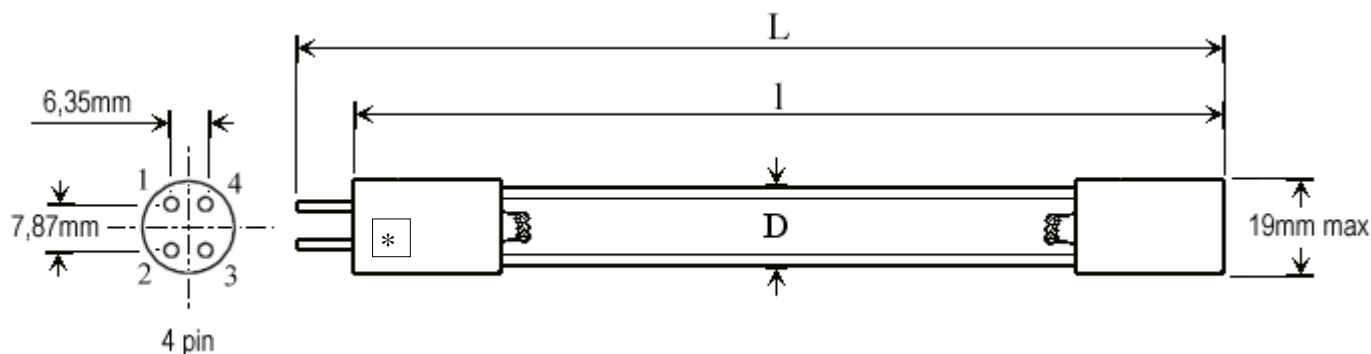
* Ceramic or PTFE Lamp bases

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Average Life Hrs
LPD GLDPWD15L135P	4	170	24	1,1	135	15	8000
LPD GLDPW10D15L212	10	425	25	2,50	212	15	8000
LPD GLDPW14D15L287	14	425	34	3,00	287	15	8000
LPD GLDPW16D15L331	16	425	38	4,5	331	15	8000
LPD GLDPW21D15L436	21	425	51	6,3	436	15	8000
LPD GLDPW25D15L589	25	425	60	8,5	589	15	8000
LPD GLDPW39D15L842	39	425	92	18,8	842	15	8000
LPD GLDPW40D15L894	40	425	95	20,0	894	15	8000
LPD GLDPW45D15L1199	45	425	110	22,3	1199	15	8000
LPD GLDPW75D15L1553	75	425	180	30,0	1553	15	8000
LPD GLDPW80D15L1630	80	425	190	34,2	1630	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDP-P4



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

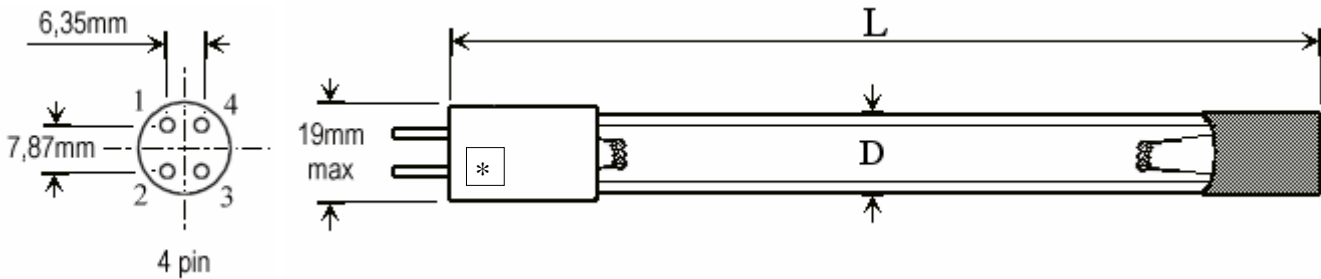
* Ceramic or PTFE Lamp bases

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Average Life Hrs
GLDPW8D15L135P4	5	170	30	1,2	135	15	8000
GLDPW6D15L150P4	6	170	35	1,5	150	15	000
GLDPW10D15L212P4	10	425	25	2,7	212	15	8000
GLDPW12D15L234P4	10	425	26	3,0	234	15	8000
GLDPW11D15L237P4	11	425	27	3,1	237	15	8000
GLDPW12D15L265P4	12	425	29	3,4	265	15	8000
GLDPW14D15L287P4	14	425	34	4,0	287	15	8000
GLDPW16D15L362P4	16	425	38	5,2	362	15	8000
GLDPW18D15L385P4	18	425	40	5,8	385	15	8000
LDPW22D15L436P4	22	425	51	7,3	436	15	8000
GLDPW25D15L538P4	25	425	60	8,5	538	15	8000
GLDPW30D15L650P4	30	425	72	11,2	650	15	8000
GLDPW30D15L690P4	30	425	72	12,0	690	15	8000
GLDPW38D15L793P4	38	425	90	13,5	793	15	8000
GLDPW40D15L842P4	40	425	98	14,3	842	15	8000
GLDPW45D15L868P4	45	425	110	15,6	868	15	8000
GLDPW50D15L1148P4	50	425	120	19,3	1148	15	8000
GLDPW75D15L1553P4	75	425	180	30	1553	15	8000
GLDPW80D15L1630P4	80	425	190	35	1680	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDP-P41



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

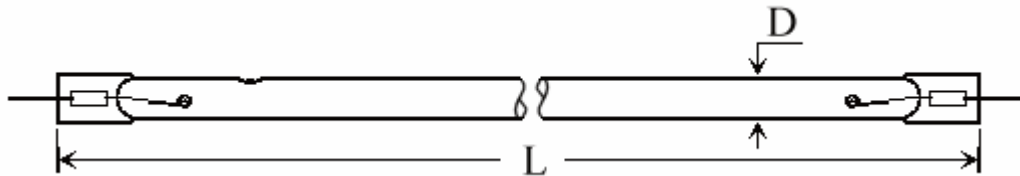
* Ceramic or PTFE Lamp bases

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length l mm	Diameter D mm	Average Life Hrs
GLDPW5D15L120P4-1	5	170	30	1,2	120	15	8000
GLDPW10D15L200P4-1	10	425	25	2,7	200	15	8000
GLDPW14D15L270P4-1	14	425	34	4,0	270	15	8000
GLDPW16D15L350P4-1	16	425	38	3,3	350	15	8000
GLDPW22D15L420P4-1	22	425	51	7,3	420	15	8000
GLDPW30D15L640P4-1	30	425	72	11,2	640	15	8000
GLDPW40D15L830P4-1	40	425	98	14,3	830	15	8000
GLDPW50D15L1136P4-1	50	425	120	19,3	1136	15	8000
GLDPW75D15L1540P4-1	75	425	179	30	1540	15	8000
GLDPW80D15L1618P4-1	80	425	190	32,0	1618	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDS



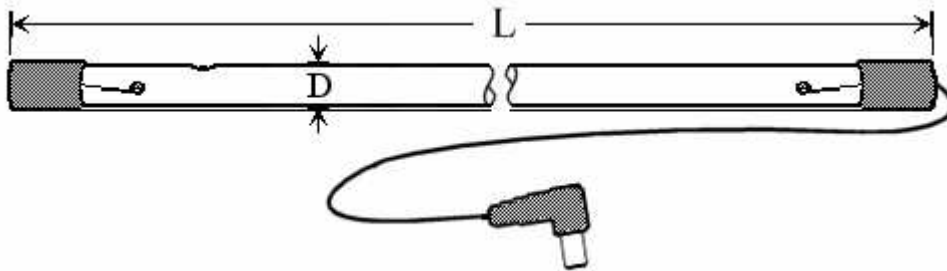
Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDSW10D10L170	10	170	25	1,2	170	10	8000
GLDSW12D10L240	12	170	27	3,2	240	10	8000
GLDSW22D15L420	22	425	51	7,3	420	15	8000
GLDSW40D15L825	40	425	98	14,3	825	15	8000
GLDSW75D15L1530	75	425	179	30,0	1530	15	7000



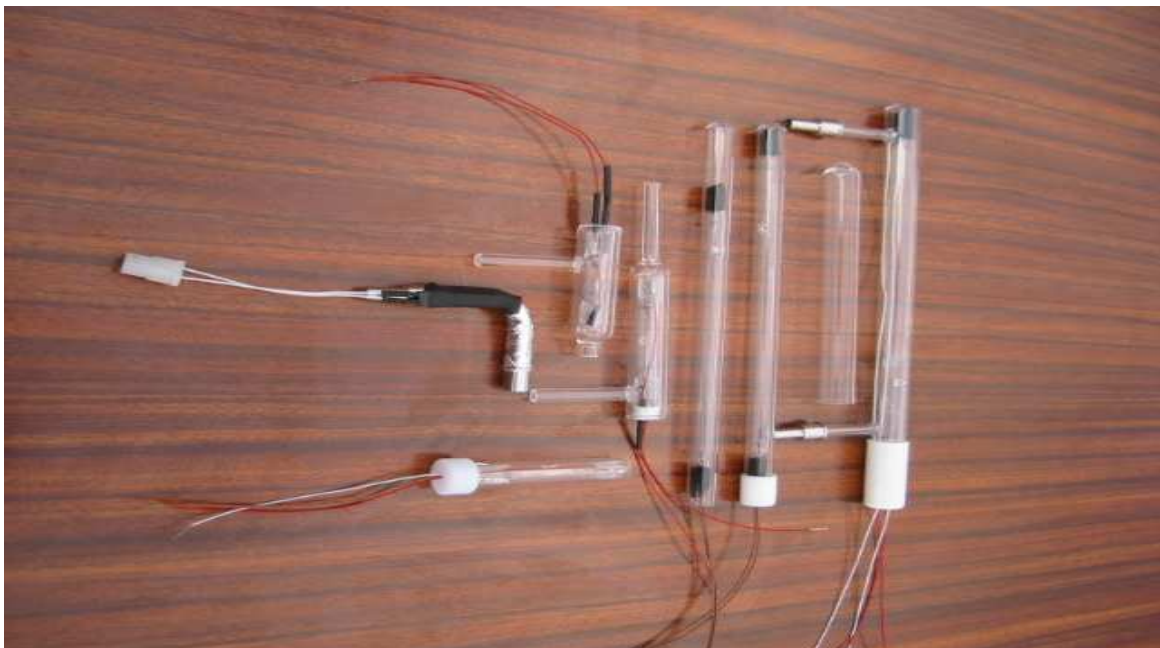
Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLDS-1



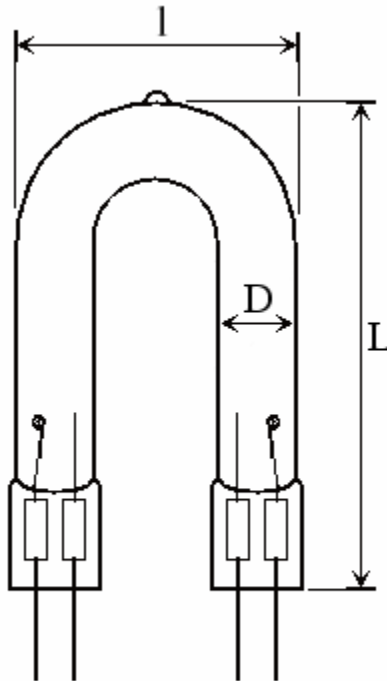
Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDSW10D10L170-1	10	170	25	1,2	170	10	8000
GLDSW12D10L240-1	12	425	27	3,2	240	10	8000
GLDSW22D10L420-1	22	425	51	7,3	425	15	8000
GLDSW40D10L825-1	40	425	98	14,3	825	15	8000
GLDSW75D10L1530-1	75	425	179	30,0	1530	15	8000



Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

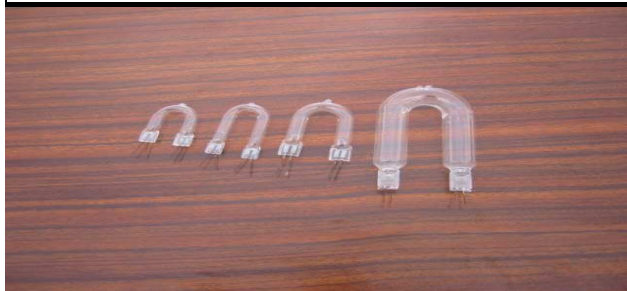
GERMICIDAL QUARTZ LAMPS

Lamp Type: GLUA



Data Sheet

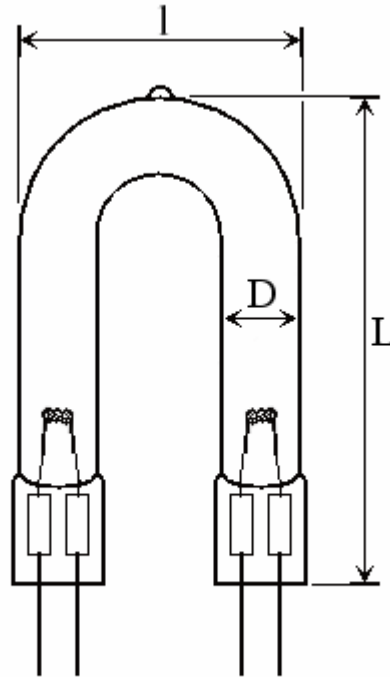
Code	Wattage W	Lamp Current mA	UV Output W	Length L mm	Length I mm	Diameter D mm	Average Life Hrs
GLUAW5D10L45	5	170	1,5	45	38	10	8000
GLUAW6D10L70	6	170	2,0	70	40	10	8000
GLUAW16D15L186	16	425	5,3	186	40	15	8000
GLUAW36D15L390	36	425	12,0	815	40	15	8000
GLUAW39D15L429	39	425	13,8	429	40	15	8000
GLUAW75D15L815	75	425	25,50	815	40	15	8000



Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

GERMICIDAL QUARTZ LAMPS

Lamp Type: GLUP

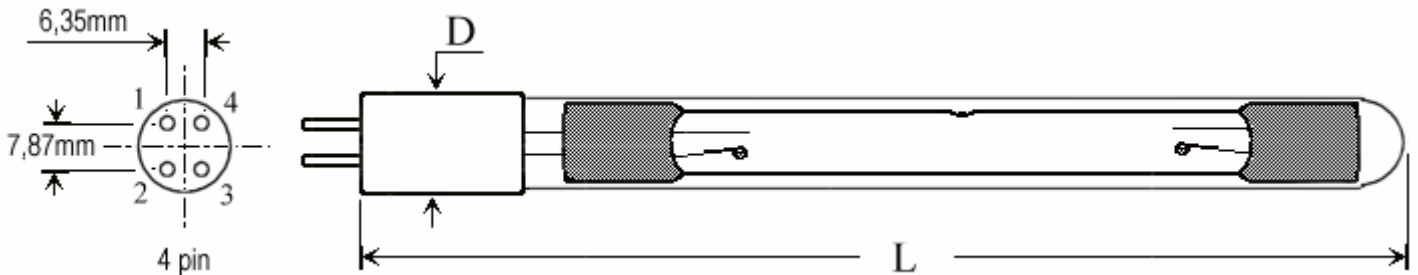


Data Sheet							
Code	Wattage W	Lamp Curent mA	UV Output W	Length L mm	Length l mm	Diameter D mm	Average Life Hrs
GLUPW5D10L45	5	170	1,5	45	38	10	8000
GLUPW6D10L70	6	170	2,0	70	40	10	8000
GLUPW8D10L150	8	170	8,5	150	40	10	8000
GLUPW16D15L186	16	425	5,3	186	40	15	8000
GLUPW36D15L390	36	425	12,0	390	40	15	8000
GLUPW39D10L429	39	425	13,8	429	40	15	8000
GLUPW75D10L815	75	425	25,5	815	40	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations ha-ve to use adequate protections.

DOUBLE-TUBE GERMICIDAL LAMPS

Type: *GLBTA-P4 Bi-Tube*



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

These lamps are specially manufactured for double-tube germicidal lamps for use in water of liquid.

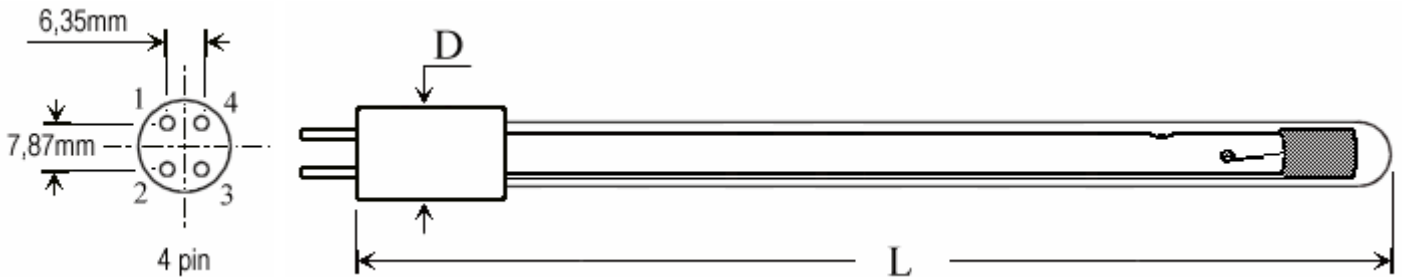
They are very easy to handle because have a double-tube structure with the outside of a straight germicidal lamp being sealed with UV glass and a base is used in only on side. They can be directly immersed into water lighting. Since they are specifically designed for use in water, they have special size and electrical characteristics. Use specially designed to increase the tolerance for flashing. For disinfecting water (liquid), select appropriate germicidal lamps taking into account the water (liquid) transmissibility, thickness (depth), flow rate and volume, and type of germs.

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLBTAW6D15L117-P4	6	170	35	0.70	117	15	8000
GLBTAW10D15L180-P4	10	425	25	1.0	180	15	8000
GLBTAW12D15L250-P4	12	425	29	2.5	250	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

DOUBLE-TUBE GERMICIDAL LAMPS

Type: *GLBTS-P4 Bi-Tube*



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

TQI these lamps are specially manufactured for double-tube germicidal lamps for use in water of liquid.

They are very easy to handle because have a double-tube structure with the outside of a straight germicidal lamp being sealed with UV glass and a base is used in only on side. They can be directly immersed into water lighting. Since they are specifically designed for use in water, they have special size and electrical characteristics. Use specially designed to increase the tolerance for flashing. For disinfecting water (liquid), select appropriate germicidal lamps taking into account the water (liquid) transmissibility, thickness (depth), flow rate and volume, and type of germs.

Data Sheet							
Code	Wattage W	Lamp Current mA	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLBTSW4D10L100P4	4	170	25	0,6	100	10	8000
GLBTSW6D15L130P4	6	170	35	0,7	130	15	8000
GLBTSW10D15L180P4	10	425	25	1,2	180	15	8000
GLBTSW12D15L250P4	12	425	29	2,5	250	15	8000
GLBTSW22D15L420P4	22	425	51	6,5	420	15	8000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

HIGH PRESSURE QUARTZ LAMPS

High pressure mercury vapor lamps, accepted as the optimal radiation sources for UV curing applications, emit in the medium, long and short UV wave lengths.

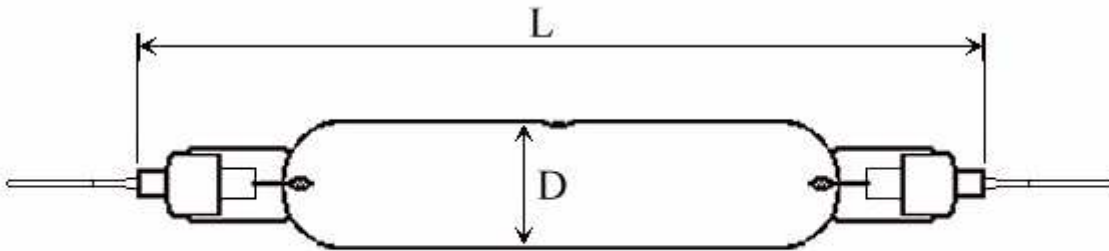
Application:

Curing of plastics, lacquers and inks, polymerisation, paint drying, colour printing processes and cartography, for chemical analysis, for chemistry, for laser technology, for medicine, for electronics, photochemical processes.

<i>Type Lamps</i>	Page
TQIHPL	30
TQIH	31

HIGH PRESSURE QUARTZ LAMPS

Type: TQIHPL



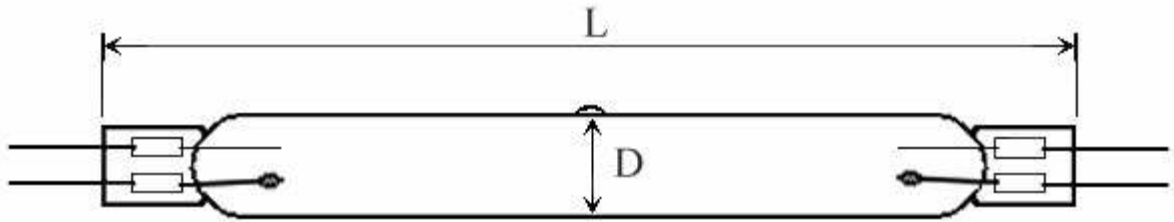
Data Sheet

Code	Wattage W	Lamp Voltage V	Line Voltage V	Lamp Current A	Length L mm	Arc Length mm	Diameter D mm	Average Life Hrs
TQIHPLW 1000D22L230	1000	145	230	7.5	230	106	22.5	1000
TQIHPLW 1000D24L215	1000	130	230	8.6	215	120	24.5	1000
TQIHPLW 1300D22L230	1300	150	230	9.7	230	125	22.5	1000
TQIHPLW 1500D22L275	1500	150	230	11	275	152	22.5	1000
TQIHPLW 1500D22L275	1500	150	230	11	275	152	22.5	1000
TQIHPLW 1700D22L275	1700	275	400	7	275	152	22.5	1000
TQIHPLW 2000D22L330	2000	240	400	9.7	330	206	22.5	1000
TQIHPLW 2000D22L330	2000	240	400	9.7	330	206	22.5	1000
TQIHPLW 2000D 19L361	2000	210	400	9.5	361	250	19.5	1000
TQIHPLW 2250D24L275	2250	150	230	16	275	152	24.5	1000
TQIHPLW 2400D26L330	2400	270	400	10	330	206	26.5	1000
TQIHPLW 2500D22L380	2500	280	400	10	380	247	22.5	1000
TQIHPLW 3000D22L430	3000	275	400	12	430	305	22.5	1000
TQIHPLW 3000D22L350	3000	265	400	12	350	250	22.5	1000
TQIHPLW 3600D22L480	3600	275	400	14.5	480	356	22.5	1000
TQIHPLW 3700D26L410	3700	230	400	18	410	300	26.5	1000
TQIHPLW 4000D24L329	4000	280	400	16	329	250	24.5	1000
TQIHPLW 4000D24L380	4000	360	570	12	380	256	24.5	1000
TQIHPLW 4000D26L380	4000	360	570	12	380	256	26.5	1000
TQIHPLW 4100D22L550	4100	270	400	16	550	425	22.5	1000
TQIHPLW 4200D22L550	4200	600	1000	8	550	425	22.5	1000
TQIHPLW 5000D22L630	5000	440	660	12.4	630	505	22.5	1000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

HIGH PRESSURE QUARTZ LAMPS

Lamp Type: TQIH



Data Sheet						
Code	Wattage W	Lamp Current A	Lamp Voltage V	Length L mm	Diameter D mm	Average Life Hrs
TQIHW80D10L80	80	0.80	80	80	10	1000
TQIHW80D10L125	125	1.15	90	125	10	1000
TQIHW80D10L250	250	2.15	130	165	15	1000
TQIHW80D10L400	400	3.25	135	275	22	1000
TQIHW80D10L700	700	5.40	140	380	23	1000
TQIHW80D10L1000	1000	7.50	145	630	23	1000



Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

INFRARED QUARTZ LAMPS

Infrared lamps permit an high radiant energy concentration and a precise control. They offer a clear, dry and suitable heating system, useful both in the industrial field and in agriculture.

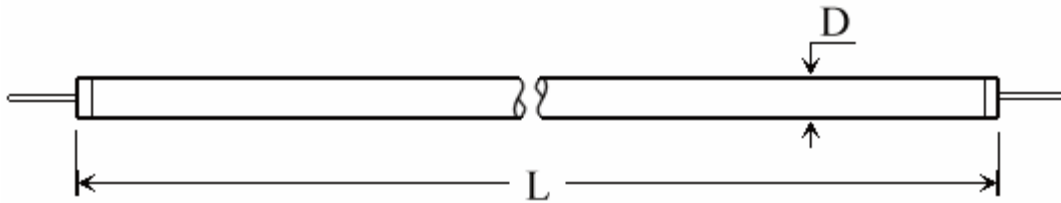
Application: metal heating, to dry ink and paint, climatic control of greenhouses and breedings, food heating, sterilization.

<i>Type Lamps</i>	Page
IRD	33
IRDH	34-35
IRC	36
IRE	37



INFRARED QUARTZ LAMPS

Lamp Type: IRD

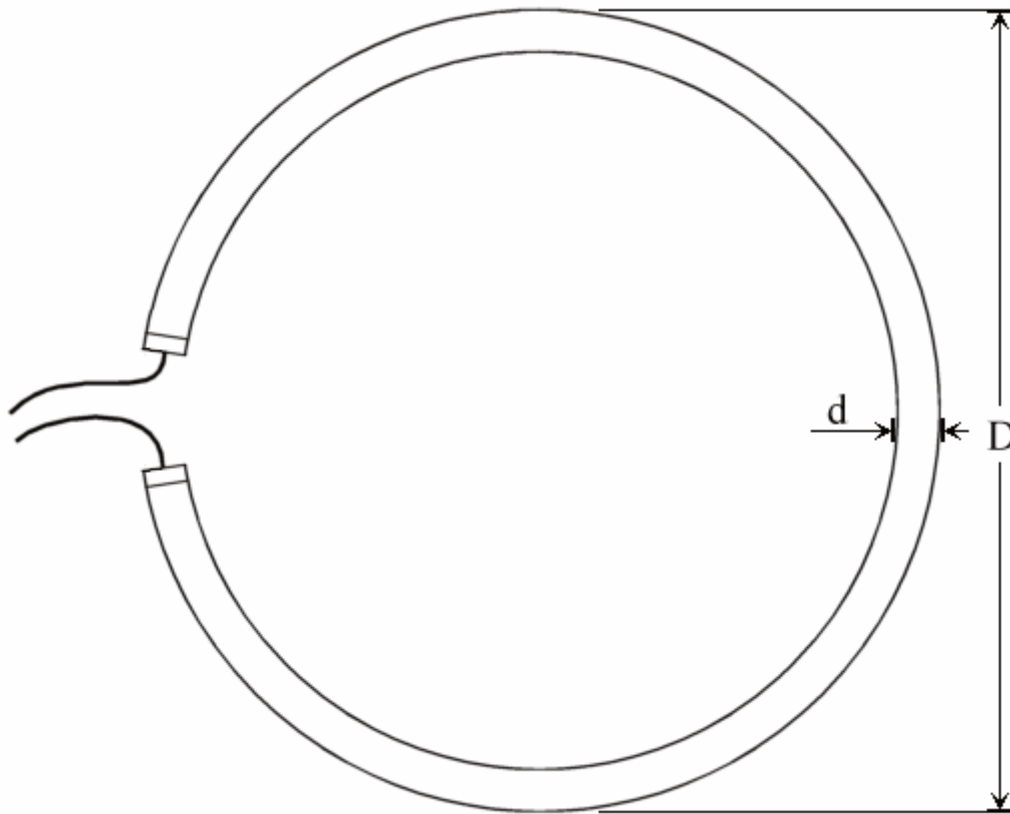


Data Sheet						
Code	Wattage W	Lamp Current A	Lamp Voltage V	Length L mm	Diameter D mm	Average Life Hrs
IRDW640V240D10L450	640	2,8	230	450	10	5000
IRDW640V120D10L450	640	5,33	120	450	10	4000
IRDW500V240D10L800	500	2,0	230	800	10	5000
IRDW500V240D14L800	500	2,0	230	800	14	5000
IRDW500V120D14L400	500	4,5	120	800	14	5000
IRDW500V240D14L1200	500	2,0	230	1200	14	6000
IRDW3000V460D14L1300	3000	11	460	1300	14	3000
IRDW1500V235D14L3000	1500	6,4	235	3000	14	5000



INFRARED QUARTZ LAMPS

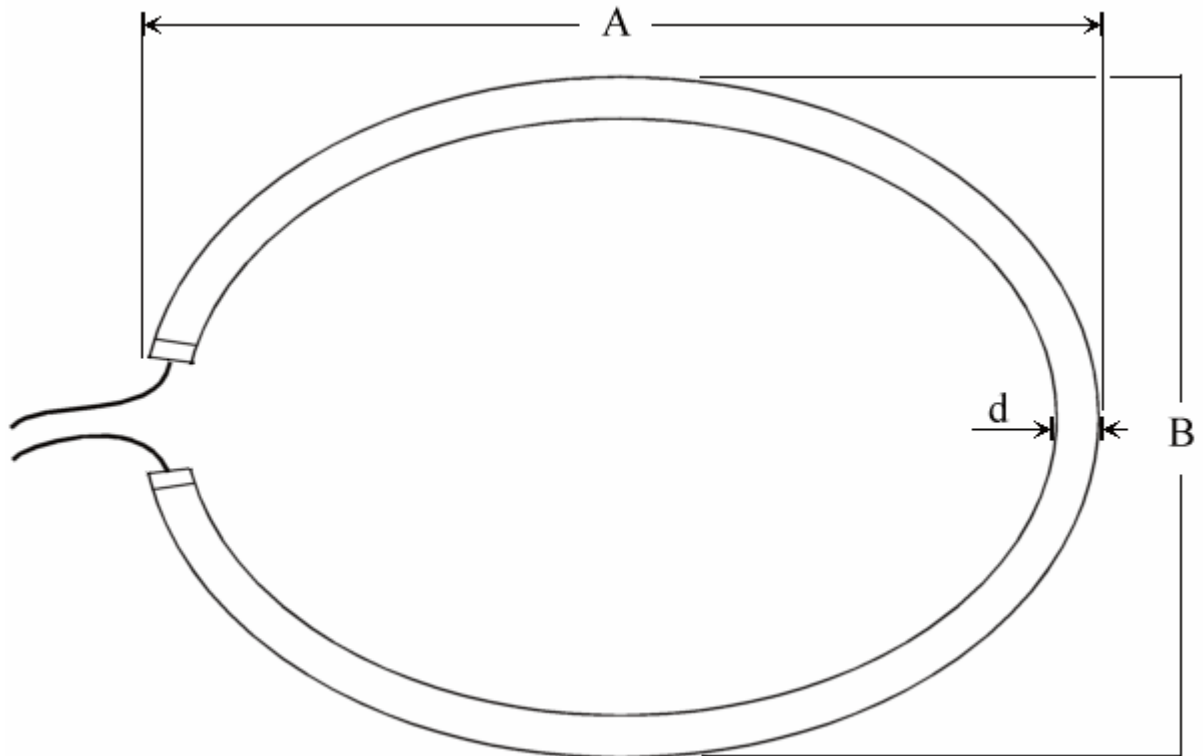
Lamp Type: IRC



Data Sheet						
Code	Wattage W	Lamp Current A	Lamp Voltage V	Diameter D mm	Diameter d mm	Average Life Hrs
IRCW200D145	200	0,87	230	145	10	6000
IRCW600D145	600	2,60	230	145	10	5000
IRCW600D145	600	5,0	120	145	10	4000
IRCW1000D145	1000	4,3	230	145	10	4000

INFRARED QUARTZ LAMPS

Lamp Type: IRE



Data Sheet

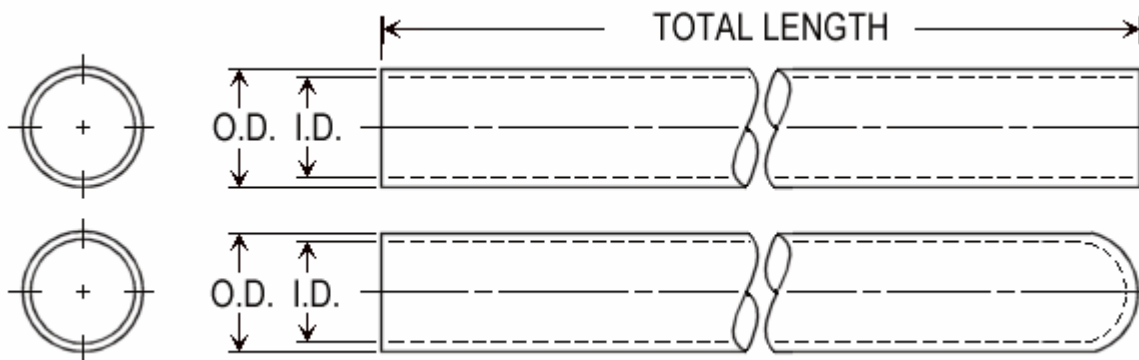
Code	Wattage W	Lamp Current A	Lamp Voltage V	Length A mm	Length B mm	Diameter d mm	Average Life Hrs
IREW200	200	0,87	230	165	125	10	4000
IREW200	200	1,6	120	165	125	10	4000
IREW600	600	2,6	230	165	125	10	4000
IREW600	600	5,0	120	165	125	10	4000
IREW1000	1000	4,3	230	165	125	10	4000
IREW1000	1000	8,3	120	165	125	10	4000
IREW1000	1000	4,3	230	165	125	14	4000

QUARTZ TUBES

Guaie in Quartz

Produces also quartz tubes this tubes are manufacture in order to put in it a germicidal lamp that is so protected.

The tubes let the lamp have an uniform temperature and in this way it assure the peah efficiency.



Code	Est.diameter mm	Length mm	Price Itl	
GE 214D15L110	15	110		
GE214D15L265	15	265		
GE214D21L200	21	200		
GE214D24L250	24	250		
GE214D24L330	24	330		
GE214D24L440	24	440		

QUARTZ TUBES

GE Fused Quartz Products

Lamp Grade Tubing

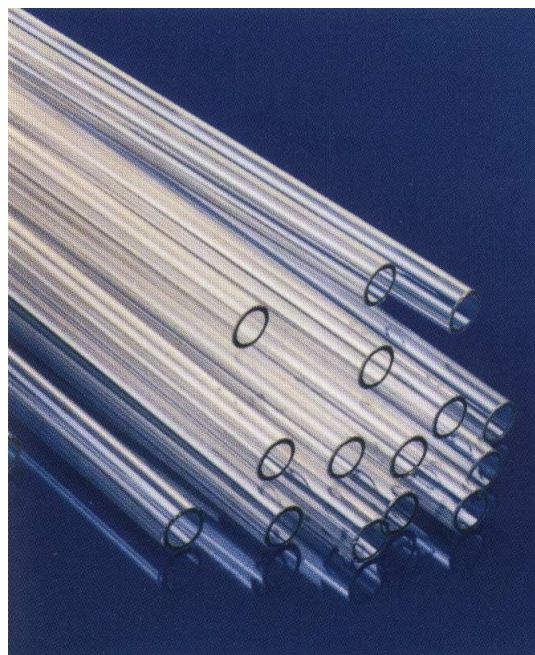
Ge Quartz is the world's leading producer of fused quartz for lighting applications. In its production of fused quartz, GE utilizes a proprietary beneficiation process that produces ultra high-purity starting materials. Continual improvements in this technology enables GE to offer the highest quality products for the world's growing number of quartz users. Different basic types of lamp grade quartz are available, each designed to fulfill specific performance requirements. Together, these materials cover a wide variety of applications. They include:

Type 214

The worldwide standard for clear fused quartz lamp tubing. GE 214 is a high purity, high transmittance, high temperature material with a low hydroxy (OH) content. It is suitable for a broad range of mercury, halogen and other quartz lamp applications.

Type 219

Known as "Ozone-Free" or "Germicidal" quartz tubing. GE 219 transmits UV-A and UV-B while blocking the deep, high energy wavelengths that cause ozone generation and pose the greatest exposure risks. Type 219 transmits the 253.7 nanometer mercury emission very efficiently, making it an ideal material for disinfection applications and various other UV treatments.



Typical Sizes, Clear Fused Quartz Tubing

Designation IDxOD (mm)	Wall (mm)	Designation IDxOD (mm)	Wall (mm)
1x3	1.00	19x25	3.00
1.2x3	0.90	20x22	1.00
1.6x3	0.70	20x22.8	1.40
2x3	0.50	20x23	1.50
2x4	1.00	20.2x23	1.40
2x6	2.00	22x25	1.50
2.3x3.6	0.60	22x25.3	1.65
2.35x3.65	0.65	22x25.8	1.90
2.35x4	0.83	23x26	1.50
2.35x4.35	1.00	25x27.5	1.25
3x5	1.00	25x28	1.50
4x6	1.00	25x28.8	1.90
5x7	1.00	27x30	1.50
6x8	1.00	30x33	1.50
6x10	2.00	32x35	1.50
7x9	1.00	34x38	2.00
7.75x9.75	1.00	35x38	1.50
7.8x10	1.10	37x40	1.50
8x10	1.00	38x44	3.00
8x12	2.00	38.1x42.1	2.00
8.5x10.5	1.00	40x43	1.50
9x11	1.00	42x45	1.50
9x11.8	1.40	45x48	1.50
10x12	1.00	47x50	1.50
10.5x12.75	1.13	48x52	2.00
11x13	1.00	50x54	2.00
11.7x14.1	1.20	50x55	2.50
12x14	1.00	53x57	2.00
12.75x15	1.13	55x59	2.00
13x15	1.00	57x61	2.00
15x17	1.00	60x64	2.00
15x18	1.50	63x67	2.00
16x18	1.00	65x69	2.00
18x20.5	1.25	66x70	2.00
18x21.6	1.80		

Physical Properties		
	Type 214	Type 219
Density (g/cc)	2.2	2.21
Thermal Expansion Coefficient (cm/cm °C)	5.5x10 ⁻⁷	5.9x10 ⁻⁷
Softening Point (°C)	1683	1660
Annealing Point (°C)	1215	1204
Strain Point (°C)	1120	1106
Index of Refraction	1.4585	1.456
Specific Heat (J/Kg °K) (0-50 °C)	670	700
Compressive Strength (Pa)	>1.1x10 ⁹	.94x10 ⁹
Young's Modulus (Pa)	7.2x10 ⁵	7x10 ⁶
Electrical Resistivity (ohm cm @ 350 °C)	7x10 ⁹	2.5x10 ¹⁰
Dielectric Constant (@ 1MHz)	3.75	5.8

Dimensional Tolerances						
OD Range	Wall As % Of OD	OD	Wall	Siding	Ovality	Bow/ 1220mm
<5mm	<18%	+2.50%	+10%	10%	2.0%	2.44mm
5mm-13mm	<18%	+2.00%	+10%	10%	1.5%	2.0mm
6mm-13mm	<18%	+1.25%	+8%	8%	1.5%	2.0mm
13mm-30mm	<18%	+1.50%	+8%	8%	1.5%	2.0mm
30mm-60mm	<18%	+1.50%	+10%	10%	1.5%	2.0mm