

## Halogen (< 75 V) Single End

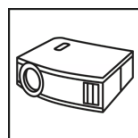


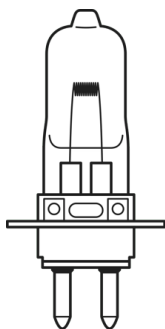
### Areas of application

- Microscopy
- Laboratory & Analysis
- UV Curing
- Fiber Illumination
- Surgical & Dental Overhead

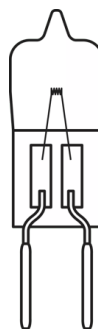
### Product features and benefits

- Precise filament alignment with patented quartz pinch technology
- HLX lamps provide 10% higher luminous flux with same power consumption over standard halogen
- Instant on and nearly constant luminous flux over the life of the lamp
- Dimmable

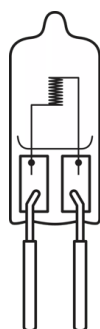




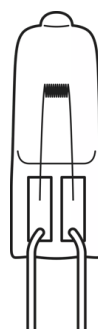
HALOGEN NIEDERVOLT LAMPE PG 22



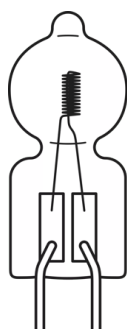
LOW-VOLTAGE HALOGEN LAMP 64250



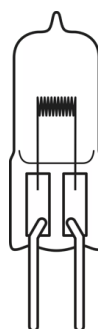
LOW-VOLTAGE HALOGEN LAMP 62138



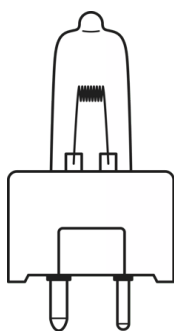
LOW-VOLTAGE HALOGEN LAMP 64611



LOW-VOLTAGE HALOGEN LAMP 64668

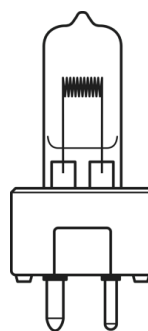


LOW-VOLTAGE HALOGEN LAMP 64640



---

LOW-VOLTAGE HALOGEN LAMP 64628



---

LOW-VOLTAGE HALOGEN LAMP 64643

## Product family datasheet

### Technical data

| Product description     | General Product Information |          | Electrical Data | Photometric Data      |
|-------------------------|-----------------------------|----------|-----------------|-----------------------|
|                         | ANSI code                   | LIF code | Nominal voltage | Nominal luminous flux |
| 64222 10 W 6 V          | -                           | -        | 6 V             | 150 lm                |
| 64223 10 W 6 V          | -                           | M/43     | 6 V             | 150 lm                |
| 64225 10 W 6 V          | ESA/FHS                     | M/29     | 6 V             | 200 lm                |
| 64250 HLX               | ESB                         | M/33     | 6 V             | 460 lm                |
| 64251 HLX               | -                           | -        | 6 V             | 460 lm                |
| 64265 HLX               | -                           | -        | 6 V             | 765 lm                |
| 64260 30 W 12 V         | -                           | M/185    | 12 V            | 800 lm                |
| 64275 AX                | -                           | M/137    | 6 V             | 755 lm                |
| 64258 20 W 12 V         | -                           | -        | 12 V            | 350 lm                |
| 64602 50 W 12 V         | -                           | M/134    | 12 V            | 1000 lm               |
| 64610 HLX               | BRL                         | A1/220   | 12 V            | 1600 lm               |
| 64611 HLX               | -                           | -        | 12 V            | 1350 lm               |
| 64604 50 W 12 V         | -                           | -        | 12 V            | 1000 lm               |
| 64668 XIR               | -                           | -        | 22.8 V          | 3050 lm               |
| 64621 HLX               | -                           | -        | 12 V            | 2880 lm               |
| 64623 HLX               | EVA                         | M/28     | 12 V            | 2800 lm               |
| 64638 HLX               | -                           | -        | 24 V            | 2970 lm               |
| 64625 HLX               | FCR                         | A1/215   | 12 V            | 3600 lm               |
| 64628 100 W 12 V        | FDT                         | A1/261   | 12 V            | 3420 lm               |
| 62138 HLX               | -                           | -        | 12 V            | 3050 lm               |
| 64626 HLX <sup>1)</sup> | EHE                         | A1/45    | 12 V            | 3500 lm               |
| 64647 120 W 24 V        | -                           | -        | 22.8 V          | 3600 lm               |
| 64650 50 W 22,8 V       | -                           | -        | 22.8 V          | 1150 lm               |
| 64633 HLX               | BRJ                         | A1/234   | 15 V            | 5600 lm               |
| 64640 HLX               | FCS                         | A1/216   | 24 V            | 6000 lm               |
| 64292 XIR               | -                           | -        | 22.8 V          | 6000 lm               |
| 64642 HLX               | FDV                         | M/184    | 24 V            | 5000 lm               |
| 64641 HLX               | -                           | -        | 24 V            | 2700 lm               |
| 64643 150 W 24 V        | FDS                         | A1/262   | 24 V            | 5000 lm               |
| 64654 HLX <sup>1)</sup> | -                           | -        | 24 V            | 9000 lm               |
| 64655 HLX               | EHJ                         | A1/223   | 24 V            | 10000 lm              |
| 64656 HLX               | FNT                         | -        | 24 V            | 10000 lm              |
| 64657 HLX               | EVC                         | M/33     | 24 V            | 9000 lm               |
| 64663 HLX               | EVD                         | A1/239   | 36 V            | 16200 lm              |
| 64664 HLX               | -                           | A1/270   | 36 V            | 14500 lm              |
| 64665 HLX               | -                           | A1/166   | 36 V            | 12200 lm              |

Product family datasheet

| Product description     | Illuminated field                      | Color temperature | Color rendering index Ra | Light center length (LCL) |
|-------------------------|----------------------------------------|-------------------|--------------------------|---------------------------|
| 64222 10 W 6 V          | 1.3*0.8 mm <sup>2</sup>                | 3050 K            | 100                      | 14.0 mm                   |
| 64223 10 W 6 V          | 1.5*0.7 mm <sup>2</sup>                | 2900 K            | 100                      | 24.0 mm                   |
| 64225 10 W 6 V          | 1.7*0.65 mm <sup>2</sup>               | 3200 K            | 100                      | 19.5 mm                   |
| 64250 HLX               | 2.3*0.8 mm <sup>2</sup>                | 3350 K            | 100                      | 19.4 mm <sup>2)</sup>     |
| 64251 HLX               | 2.3*0.8 mm <sup>2</sup>                | 3350 K            | 100                      | 14.0 mm                   |
| 64265 HLX               | 1.6*1.6 mm <sup>2</sup>                | 3200 K            | 100                      | 19.5 mm                   |
| 64260 30 W 12 V         | 2.6*1.3 mm <sup>2</sup>                | 3300 K            | 100                      | 14.0 mm                   |
| 64275 AX                | 1.3*1.6 mm <sup>2</sup>                | 3350 K            | 100                      | 26.0 mm <sup>2)</sup>     |
| 64258 20 W 12 V         | 3.5*0.8 mm <sup>2</sup> <sup>3)</sup>  |                   | 100                      | 19.5 mm <sup>2)</sup>     |
| 64602 50 W 12 V         | 3.0*3.0 mm <sup>2</sup>                | 3050 K            | 100                      | 30.0 mm                   |
| 64610 HLX               | 3.3*1.6 mm <sup>2</sup>                | 3350 K            | 100                      | 30.0 mm <sup>2)</sup>     |
| 64611 HLX               | 3.3*1.6 mm <sup>2</sup>                | 3250 K            | 100                      | 30.0 mm                   |
| 64604 50 W 12 V         | 3.3*1.6 mm <sup>2</sup>                | 3000 K            |                          | 30.0 mm                   |
| 64668 XIR               | 2.2*5.5 mm <sup>2</sup>                | 3250 K            | 100                      | 30.0 mm <sup>2)</sup>     |
| 64621 HLX               | 4.7*2.7 mm <sup>2</sup>                | 3300 K            | 100                      | 18.0 mm                   |
| 64623 HLX               | 4.7*2.7 mm <sup>2</sup>                | 3300 K            | 100                      | 30.0 mm                   |
| 64638 HLX               | 5.3*2.6 mm <sup>2</sup>                | 3100 K            | 100                      | 30.0 mm                   |
| 64625 HLX               | 4.2*2.3 mm <sup>2</sup>                | 3450 K            | 100                      | 30.0 mm <sup>2)</sup>     |
| 64628 100 W 12 V        | 4.2*2.3 mm <sup>2</sup>                | 3500 K            | 100                      | 27.0 mm                   |
| 62138 HLX               | 2.4*1.8 mm <sup>2</sup>                | 3350 K            | 100                      | 27.0 mm                   |
| 64626 HLX <sup>1)</sup> | 4.2*2.3 mm <sup>2</sup>                | 3450 K            | 100                      | 18.0 mm                   |
| 64647 120 W 24 V        | 2.3*6.4 mm <sup>2</sup>                |                   | 100                      | 30.0 mm                   |
| 64650 50 W 22,8 V       | 2.0*5.0 mm <sup>2</sup>                | 3100 K            | 100                      | 30.0 mm                   |
| 64633 HLX               | 3.0*4.8 mm <sup>2</sup>                | 3450 K            | 100                      | 30.0 mm                   |
| 64640 HLX               | 5.8*2.9 mm <sup>2</sup>                | 3450 K            | 100                      | 30.0 mm <sup>2)</sup>     |
| 64292 XIR               | 2.8*6.7 mm <sup>2</sup>                | 3250 K            | 100                      | 30.0 mm <sup>2)</sup>     |
| 64642 HLX               | 6.0*3.2 mm <sup>2</sup>                | 3450 K            | 100                      | 31.7 mm <sup>2)</sup>     |
| 64641 HLX               | 3.0*6.0 mm <sup>2</sup>                |                   |                          | 32.0 mm                   |
| 64643 150 W 24 V        | 6.0*3.0 mm <sup>2</sup>                | 3450 K            | 100                      | 33.5 mm                   |
| 64654 HLX <sup>1)</sup> | 8.0*4.0 mm <sup>2</sup>                | 3450 K            | 100                      | 35.0 mm                   |
| 64655 HLX               | 7.1*3.6 mm <sup>2</sup>                | 3550 K            | 100                      | 33.0 mm                   |
| 64656 HLX               | 7.0*3.5 mm <sup>2</sup>                | 3550 K            | 100                      | 33.0 mm                   |
| 64657 HLX               | 8.0*4.0 mm <sup>2</sup>                |                   | 100                      | 33.0 mm                   |
| 64663 HLX               | 9.3*4.9 mm <sup>2</sup>                | 3250 K            | 100                      | 36.0 mm                   |
| 64664 HLX               | 10.0*5.0 mm <sup>2</sup> <sup>4)</sup> | 3500 K            |                          | 36.0 mm                   |
| 64665 HLX               | 10.5*5.3 mm <sup>2</sup>               | 3400 K            |                          | 36.0 mm                   |

| Product description | Light center length (LCL) - (in) | Physical Attributes & Dimensions | Operating Conditions | Lifetime Data    |
|---------------------|----------------------------------|----------------------------------|----------------------|------------------|
|                     |                                  | Lamp base                        | Burning position     | Nominal lifetime |
| 64222 10 W 6 V      |                                  | PG22                             | Any                  | 300 hr           |
| 64223 10 W 6 V      | 0.936 in                         | G4                               | Any                  | 300 hr           |

Product family datasheet

| Product description     | Light center length (LCL) - (in) | Physical Attributes & Dimensions | Operating Conditions | Lifetime Data    |
|-------------------------|----------------------------------|----------------------------------|----------------------|------------------|
|                         |                                  | Lamp base                        | Burning position     | Nominal lifetime |
| 64225 10 W 6 V          | 0.761 in                         | G4                               | s90                  | 100 hr           |
| 64250 HLX               | 0.761 in                         | G4                               | Any                  | 100 hr           |
| 64251 HLX               |                                  | PG22                             | Any                  | 100 hr           |
| 64265 HLX               | 0.7678 in                        | G4                               | Any                  | 100 hr           |
| 64260 30 W 12 V         | 0.546 in                         | PG22                             | Any                  | 50 hr            |
| 64275 AX                | 1.014 in                         | G4                               | Any                  | 25 hr            |
| 64258 20 W 12 V         | 0.768 in                         | G4                               | s90                  | 2000 hr          |
| 64602 50 W 12 V         |                                  | G6.35                            | s90                  | 1100 hr          |
| 64610 HLX               | 1.17 in                          | G6.35                            | s90                  | 50 hr            |
| 64611 HLX               |                                  | G6.35                            | s90                  | 100 hr           |
| 64604 50 W 12 V         |                                  | GY6.35                           | hs30                 | 2000 hr          |
| 64668 XIR               |                                  | G6.35                            | h90                  | 350 hr           |
| 64621 HLX               | 0.702 in                         | PG22                             | s90                  | 2000 hr          |
| 64623 HLX               | 1.17 in                          | GY6.35                           | s90                  | 2000 hr          |
| 64638 HLX               | 1.17 in                          | G6.35                            | Any                  | 300 hr           |
| 64625 HLX               | 1.18 in                          | GY6.35                           | s90                  | 50 hr            |
| 64628 100 W 12 V        | 1.053 in                         | GY9.5                            | s90                  | 50 hr            |
| 62138 HLX               | 1.063 in                         | G6.35                            | p90/p15              | 50 hr            |
| 64626 HLX <sup>1)</sup> | 0.702 in                         | PG22                             | s90                  | 50 hr            |
| 64647 120 W 24 V        | 1.18 in                          | G6.35                            | Any                  | 1000 hr          |
| 64650 50 W 22,8 V       | 1.17 in                          | G6.35                            | Any                  | 1000 hr          |
| 64633 HLX               | 1.17 in                          | G6.35                            | s90                  | 50 hr            |
| 64640 HLX               | 1.185 in                         | G6.35                            | s90                  | 50 hr            |
| 64292 XIR               |                                  | G6.35                            | s90                  | 600 hr           |
| 64642 HLX               | 1.248 in                         | G6.35                            | s90                  | 300 hr           |
| 64641 HLX               |                                  | G6.35                            | s135                 | 200 hr           |
| 64643 150 W 24 V        | 1.32 in                          | GY9.5                            | s90                  | 100 hr           |
| 64654 HLX <sup>1)</sup> | 1.365 in                         | GY9.5                            | s90                  | 300 hr           |
| 64655 HLX               | 1.287 in                         | G6.35                            | s90                  | 50 hr            |
| 64656 HLX               | 1.287 in                         | G6.35                            | s90                  | 75 hr            |
| 64657 HLX               | 1.287 in                         | G6.35                            | s90                  | 300 hr           |
| 64663 HLX               | 1.404 in                         | G6.35                            | s90                  | 50 hr            |
| 64664 HLX               |                                  | G6.35                            | s105                 | 150 hr           |
| 64665 HLX               |                                  | G6.35                            | s90                  | 300 hr           |

| Product description | Environmental & Regulatory Information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                    |                                    |
|---------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|
|                     | Primary article identifier                                                                                      | Declaration no. in SCIP database   | Candidate list substance 1         |
| 64222 10 W 6 V      | 4050300327273                                                                                                   | No declarable substances contained | No declarable substances contained |
| 64223 10 W 6 V      | 4008321107039                                                                                                   | No declarable substances contained | No declarable substances contained |

## Product family datasheet

| Environmental & Regulatory Information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006<br>(REACH) |                                                                               |                                    |                                    |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------|------------------------------------|
| Product description                                                                                                | Primary article identifier                                                    | Declaration no. in SCIP database   | Candidate list substance 1         |
| 64225 10 W 6 V                                                                                                     | 4050300006758                                                                 | No declarable substances contained | No declarable substances contained |
| 64250 HLX                                                                                                          | 4050300012407                                                                 | No declarable substances contained | No declarable substances contained |
| 64251 HLX                                                                                                          | 4050300582290   4050300338316                                                 | No declarable substances contained | No declarable substances contained |
| 64265 HLX                                                                                                          | 4008321107053                                                                 | No declarable substances contained | No declarable substances contained |
| 64260 30 W 12 V                                                                                                    | 4050300099798                                                                 | No declarable substances contained | No declarable substances contained |
| 64275 AX                                                                                                           | 4050300258690                                                                 | No declarable substances contained | No declarable substances contained |
| 64258 20 W 12 V                                                                                                    | 4062172404891   4052899152717   4008321659408   4050300285153   4008321644794 | No declarable substances contained | No declarable substances contained |
| 64602 50 W 12 V                                                                                                    | 4008321107077                                                                 | No declarable substances contained | No declarable substances contained |
| 64610 HLX                                                                                                          | 4050300021058   4050300006697                                                 | No declarable substances contained | No declarable substances contained |
| 64611 HLX                                                                                                          | 4008321107091                                                                 | No declarable substances contained | No declarable substances contained |
| 64604 50 W 12 V                                                                                                    | 4050300569093                                                                 | No declarable substances contained | No declarable substances contained |
| 64668 XIR                                                                                                          | 4008321331182                                                                 | No declarable substances contained | No declarable substances contained |
| 64621 HLX                                                                                                          | 4050300535531                                                                 | No declarable substances contained | No declarable substances contained |
| 64623 HLX                                                                                                          | 4050300012018   4008321037213                                                 | No declarable substances contained | No declarable substances contained |
| 64638 HLX                                                                                                          | 4050300283050                                                                 | No declarable substances contained | No declarable substances contained |
| 64625 HLX                                                                                                          | 4050300006703                                                                 | No declarable substances contained | No declarable substances contained |
| 64628 100 W 12 V                                                                                                   | 4008321099549                                                                 | No declarable substances contained | No declarable substances contained |
| 62138 HLX                                                                                                          | 4050300242958                                                                 | No declarable substances contained | No declarable substances contained |
| 64626 HLX <sup>1)</sup>                                                                                            | 4050300006765                                                                 | No declarable substances contained | No declarable substances contained |
| 64647 120 W 24 V                                                                                                   | 4008321107114                                                                 | No declarable substances contained | No declarable substances contained |
| 64650 50 W 22,8 V                                                                                                  | 4008321107138                                                                 | No declarable substances contained | No declarable substances contained |
| 64633 HLX                                                                                                          | 4050300006710                                                                 | No declarable substances contained | No declarable substances contained |

Product family datasheet

| Environmental & Regulatory Information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006<br>(REACH) |                               |                                    |                                    |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|------------------------------------|
| Product description                                                                                                | Primary article identifier    | Declaration no. in SCIP database   | Candidate list substance 1         |
| 64640 HLX                                                                                                          | 4050300006727                 | No declarable substances contained | No declarable substances contained |
| 64292 XIR                                                                                                          | 4008321330598                 | No declarable substances contained | No declarable substances contained |
| 64642 HLX                                                                                                          | 4050300012025                 | No declarable substances contained | No declarable substances contained |
| 64641 HLX                                                                                                          | 4050300048260                 | No declarable substances contained | No declarable substances contained |
| 64643 150 W 24 V                                                                                                   | 4008321099648                 | No declarable substances contained | No declarable substances contained |
| 64654 HLX <sup>1)</sup>                                                                                            | 4008321241399   4008321131973 | No declarable substances contained | No declarable substances contained |
| 64655 HLX                                                                                                          | 4050300006734                 | No declarable substances contained | No declarable substances contained |
| 64656 HLX                                                                                                          | 4050300023120                 | No declarable substances contained | No declarable substances contained |
| 64657 HLX                                                                                                          | 4050300012001                 | No declarable substances contained | No declarable substances contained |
| 64663 HLX                                                                                                          | 4050300006741                 | No declarable substances contained | No declarable substances contained |
| 64664 HLX                                                                                                          | 4008321241474                 | No declarable substances contained | No declarable substances contained |
| 64665 HLX                                                                                                          | 4008321833815   4008321099761 | No declarable substances contained | No declarable substances contained |

1) Available on request  
2) ±0.3 mm  
3) Restricted tolerances 3.5±0.25\*0.8±0.10  
4) Round-core double coil



## Product family datasheet

---

### Safety advice

To prevent personal injury or damage to property, halogen lamps may only be operated in suitable luminaires designed with suitable mechanisms (protective shields, grids, etc.) to ensure that in the event of a lamp bursting no parts/shards can escape and that during operation no ultraviolet radiation can escape. There must also be a warning sign to indicate that the lamps give off high levels of heat. Detailed information is available on request.

---

### Application advice

For more detailed application information and graphics please see product datasheet.

---

### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.