

Technical Information

No. FO 5205

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Substitutes: --/--

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Mercury Short Arc Lamp
for Microlithography

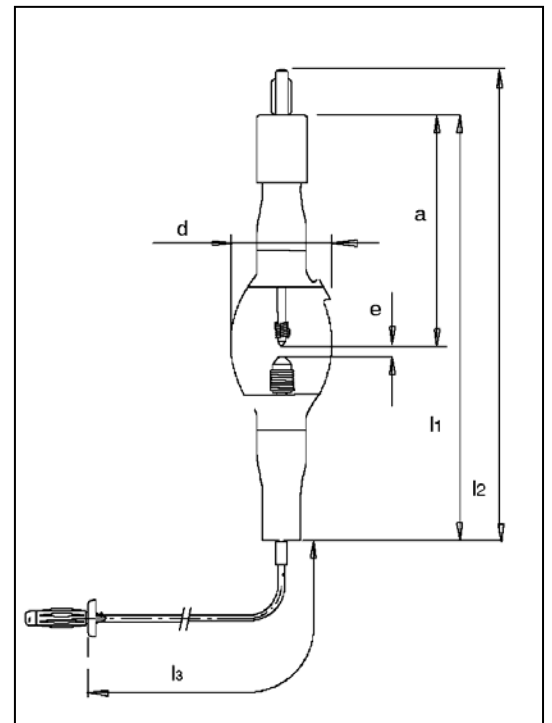
HBO[®] 510 W/FU

■ Product description

The OSRAM HBO[®] 510 W/FU belongs to the family of mercury short arc lamps, where the discharge arc burns in an atmosphere of high pressure mercury vapour. The HBO[®] 510 W/FU is a direct current, UV-emitting lamp type, which is used for Ultratech steppers of the 1100-1500 series.

■ Technical Data

Order reference		HBO [®] 510 W/FU
Rated lamp wattage	W	200 (flash 500 W)
Max. average power over 1s	W	200
Min. lamp power	W	150
Lamp voltage (200W)	V	59 ± 5 V @200 W
Operating current (200W), (=)	A	3,4 @200 W
Lamp length l ₁	mm	max. 111
Lamp length overall l ₂	mm	Max. 120
LCL a	mm	55
Bulb diameter d	mm	16
Electrode gap e	mm	2.4
Cable length l ₃	mm	110
Lifetime	h	400



Bases

- Anode: Cable connection, length l₃: 110 mm
- Cathode: SfcY 10-4/14

■ Lamp operation

Max. base temperature allowed	°C	200
Cooling		Convection
Burning position		vertical; cathode on top

■ Safety Instruction

Due to their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps must be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations must be paid attention (for details please request technical information sheet no. FO 4574).

