

Technical Information

No. FO 4747

Edition: 06/02 - subject to change

Substitutes: Edition 06/00

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO[®] 2011 W/NIL

■ Product description

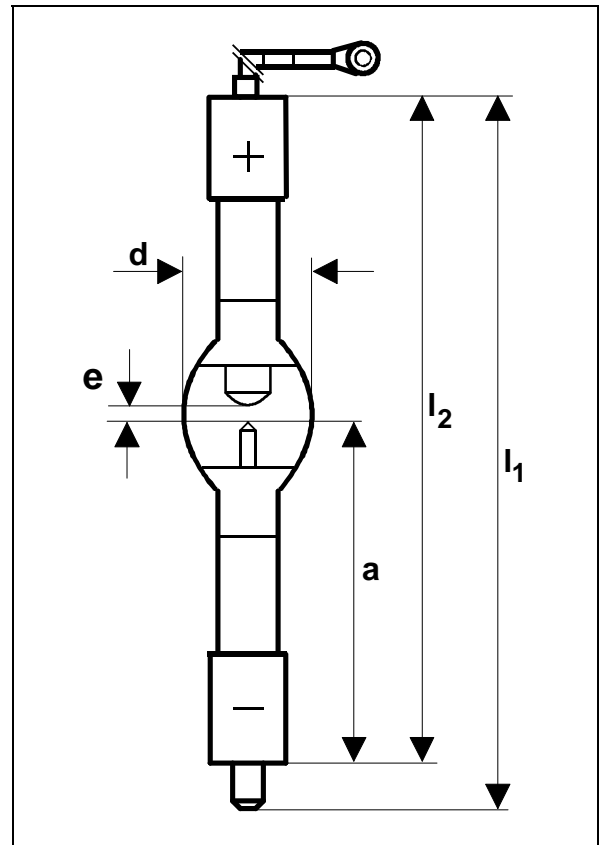
The OSRAM HBO[®] 2011 W/NIL is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is optimized for use in Nikon equipment (NSR-2205 i12D, i12E, TFH i12). Approved by Nikon!

■ Technical data

Order reference		HBO [®] 2011 W/NIL
Rated lamp wattage	W	2,000
Rated lamp voltage	V	25
Rated lamp current (=)	A	80
Ignition voltage (cold)	kV _s	max. 20
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	5,700
Electrode gap e (cold)	mm	4.5
Lamp length (overall) l ₁	mm	max. 256
Lamp length l ₂	mm	234
Bulb diameter d	mm	55
LCL a	mm	107.75
Guaranteed life	h	1,500

Base

- Cathode: SFc 27-12X1.5/35
- Anode: SFc 27-7/35 with cable connection (M8)



■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling		forced base cooling
Burning position		vertical, anode (+) up

■ Safety Instruction

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

