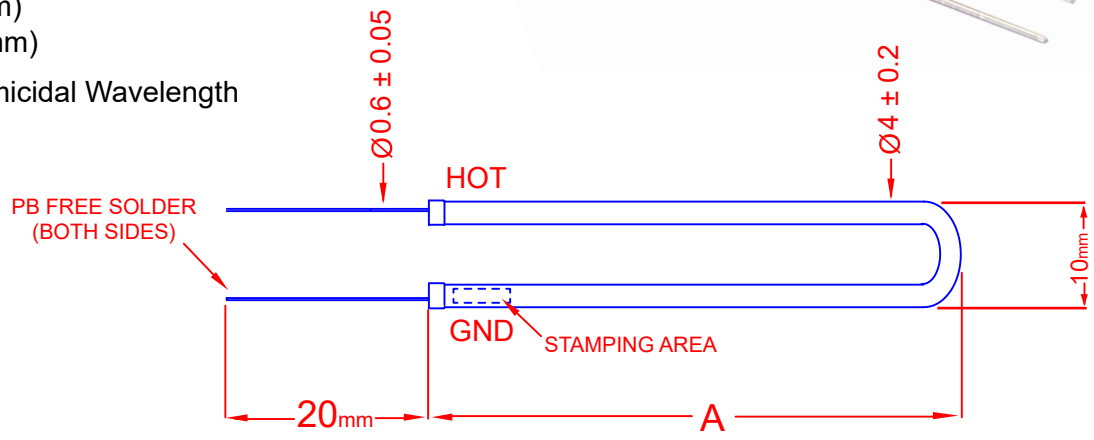
JKL COMPONENTS CORPORATION

4mm DIAMETER U-SHAPED UVC LAMP

FEATURES:

- 4mm Diameter
- 10mm Width
- 3 Length Options
  - 2.75” (35mm)
  - 5.90” (75mm)
  - 9.44” (120mm)
- 254 nm - Germicidal Wavelength





JKL Part Number	Dimension A (mm)	Length (mm)	Peak Wavelength (nm)
BF4U70-UVC	35	70	254 - Germicidal
BF4U150-UVC	75	150	254 - Germicidal
BF4U240-UVC	120	240	254 - Germicidal

ABSOLUTE MAXIMUM RATINGS

ITEMS		STANDARDS MIN	TYP	MAX
Operational Temperature		0 °C	-	60 °C
Operation Humidity		5% Rh	-	95% Rh
Storage Temperature		– 30 °C	-	85 °C
Storage Humidity		5% Rh	-	95% Rh
Operation Lamp Current	70 mm	2 mA	10 mA	11 mA
	150mm, 240mm	2 mA	15 mA	16 mA
Operation Frequency		30 kHz	55 kHz	100 kHz

LIFETIME

Definition of LIFE: *UV irradiance reaches 50% of the initial irradiance*

UVC U-Shape LAMPS	LAMP LENGTH	RATED CURRENT	LIFE (min)	AMBIENT TEMP.
Room temp. continuous lighting	70mm	10 mA	30,000*h*	25±5°C
	150mm, 240mm	15 mA	50,000*h*	
Low temp. continuous lighting	70mm	10 mA	1,800*h*	0±2°C
	150mm, 240mm	15 mA	3,000*h*	

CAUTION! DIRECT EXPOSURE MAY RESULT IN EYE DAMAGE.
Spectral output in the UV range is particularly dangerous to human vision. Even though this lamp has low power output, appropriate precautions should be taken at all times.

REV. NO.	DESCRIPTION/ECO NUMBER	APPV'D DATE
	RELEASED	6/4/20

METRIC — THIRD ANGLE PROJECTION

DIMENSIONS ARE IN MILLIMETERS
TOLERANCE UNLESS OTHERWISE SPECIFIED
1 PL +/- 0.2
2 PL +/- 0.20
ANGLE +/- 0

JKL COMPONENTS CORPORATION

TITLE: 4mm DIAMETER UVC U-SHAPED LAMP

DRAWN BY	APPV'D BY	DATE	SIZE	FSCM NO.	DRAWING NO.
L. WENGSTROM	S.N.	6/4/20	A	55335	BF UVC U-SHAPE 4MM

- CAD DRAWING - MANUAL REVISIONS NOT PERMITTED

SCALE	RELEASED DATE	REVISION DATE	REV. NO.	SHEET
NONE	6/4/20			1 OF 2

GENERAL CHARACTERISTICS - UVC U-SHAPE GERMICIDAL LAMPS (254 nm)

GENERAL CHARACTERISTICS GERMICIDAL LAMPS				
PART NAME & UNIT	**BF4U70-UVC**	**BF4U150-UVC**	**BF4U240-UVC**	**NOTE**
Lamp Length (mm)	70	150	240	
Starting Voltage (V RMS)	550 MAX	600 MAX	860 MAX	Ambient Temp. 25° C
	800 MAX	900 MAX	1300 MAX	Ambient Temp. 0° C
Recommended Applied Voltage (V RMS)	1000 MIN	1200 MIN	1500 MIN	
Discharge in dark space (s)	1 MAX	1 MAX	1 MAX	
Lamp Current (mA RMS)	10±0.05	15±0.05	15±0.05	
Lamp Voltage (V RMS)	Initial 140±35 End of life 240 MAX	Initial 205±25 End of life 320 MAX	Initial 320±50 End of life 440 MAX	
Lamp power consumption (W)	Initial 1.4	Initial 3.1	Initial 4.7	
UV irradiance (μW/cm²)	2.0±0.5	6.5±0.8	11.1±1.5	Measurment distance shall be 1.0 m
UV Radian Flux (W)	0.2	0.6	1.1	
Time to Stabilize UV irradiance (s)	60 MAX	60 MAX	60 MAX	

GERMICIDAL LAMP SPECTRUM (254 nm)

