

Xenon Flash Lamp Module XFM050 Series

1. Mitorika's Xenon flash lamp module contains Xenon flash lamp, trigger socket and control power supply in a compact body. It can be easily fit into analytical instruments as a highly stable light source.

- Highly stable light output with 5W good for analytical instruments
- Long life Xenon flash lamp
- Broad radiant spectrum from UV to IR
- Low calorific value allowing continuous and silent operation
- SMA (Fiber cable connector) type is also available



XFM050-0
Side-on type



XFM050-1
Head-on type

2. Characteristics

Parameter		Requirement
Output	Arc size	1.5mm
	Window material	UV glass
	Spectral range of light output	185~2000nm
	Stability of light output	Max. 2.0% (note 1)
	Guaranteed life	1 billion flashes
	Max. average input	5W continuous (note 2)
	Discharge capacitor	0.047/0.11/0.22/0.28 μ F (note 3)
	Main discharge voltage variable range	400V~600V (note 4)
Input	Input voltage (DC)	Min. 11V~Max. 28V
	Input current (actual value)	11V: Max. 1.4A
	Trigger input	5V(about 10mA), 10 μ S or more
	Emission frequency	Max. 530Hz
	Trigger input impedance	390 Ω
Cooling method		Natural cooling (note 5)
Operating ambient temperature		0~40°C
Storage ambient temperature		-40~90°C
Operating & storage ambient humidity		Max. 95%Rh (no condensation)
Weight		250g/XFM050 310g/XFM050-1

note 1) Stability of light output is calculated as follows:

$$\text{Stability of light output} = 100 \times (\text{Input standard deviation} / \text{Average light output})$$

note 2) Max. average lamp input x Emission frequency

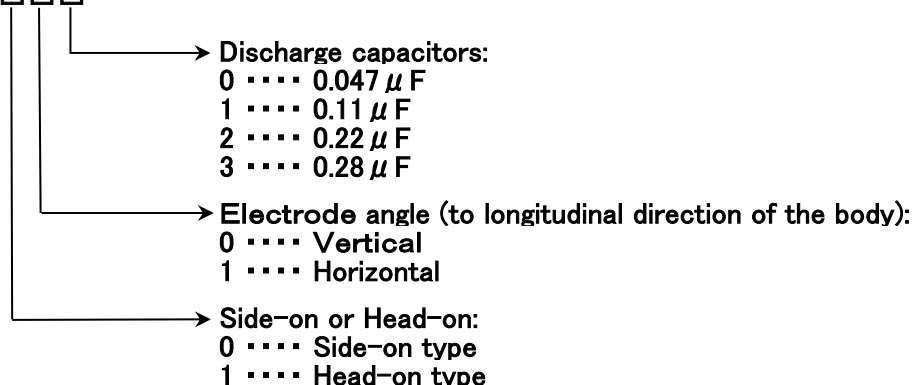
note 3) One of those capacitors to be installed upon request.

note 4) Adjustable with variable trimmer or external control voltage from 3.2V to 4.8V

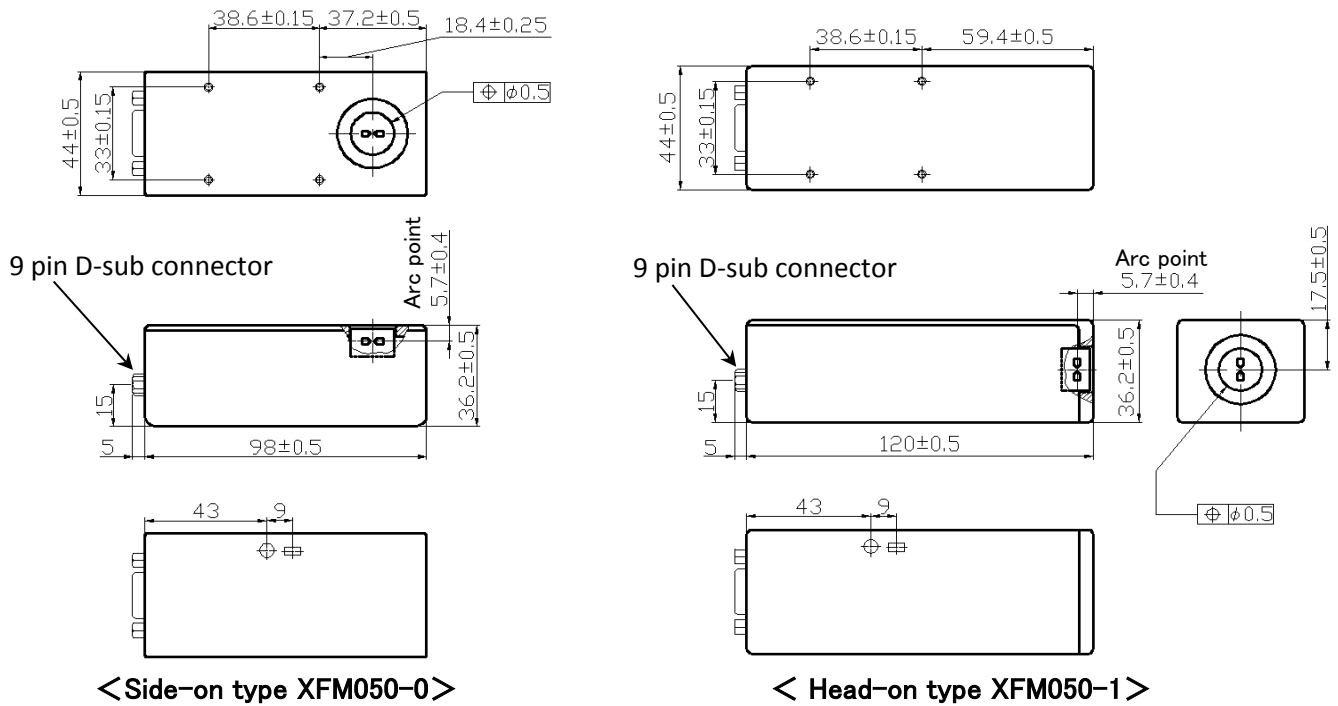
note 5) Cooling is needed when the package temperature goes up to 50°C or more.

3. Model number guide

XFM050-□□□

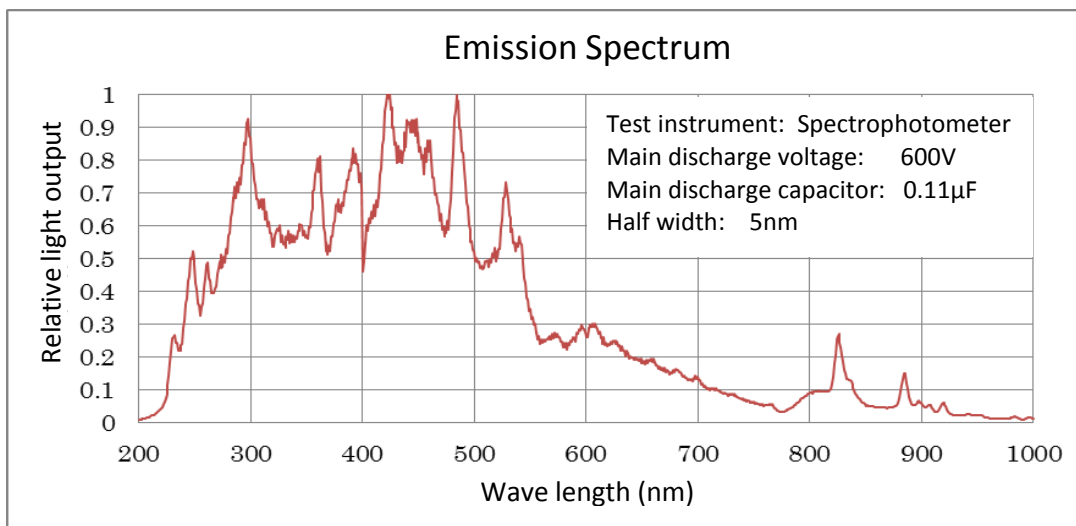


4. External dimensions



9 pin D-sub Pin Assignment

Pin No.	Function	Pin No.	Function
1	DC power input 11V~28V	6	GND for DC power input
2	DC power input 11V~28V	7	GND for DC power input
3	Main discharge voltage input 3.2V~4.8V	8	GND for main discharge voltage input
4	GND for external trigger	9	NC
5	External trigger		



* These specifications are based on the data as of January 2016 and subject to change without notice.



Mitorika Co., Ltd.
 Yurigaoka Factory
 909-1 Karihara, Motoishikawa-cho, Mito-city, Japan 310-0843
 Tel: +81-29-306-7700 Fax: +81-29-306-9850
 URL: <http://www.milas.co.jp>