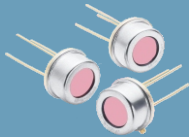

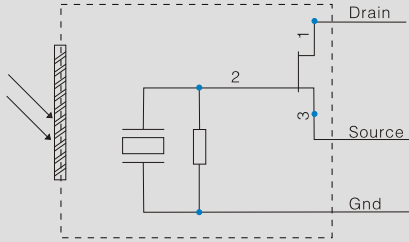
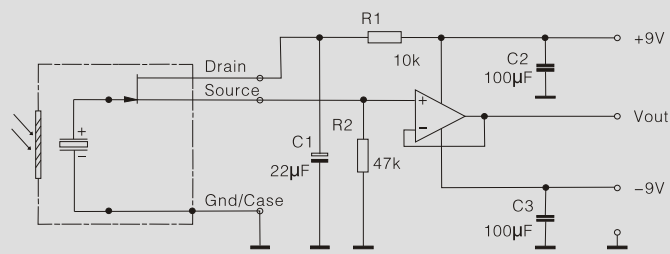
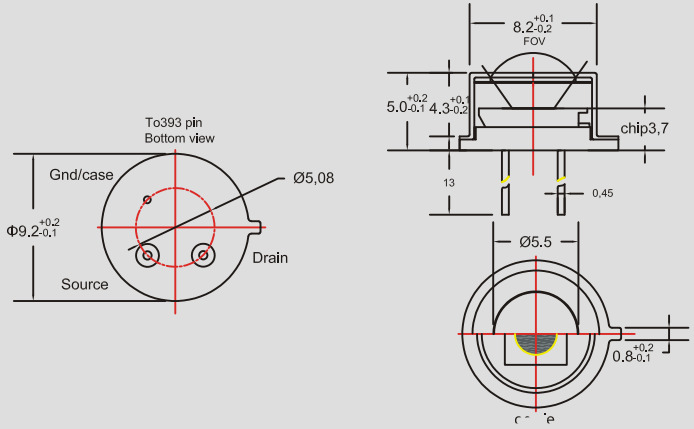


Type 型號	LVF001系列
	
Supply voltage 電源電壓	2~15V
Package Type 封裝	T0-5
Window size 窗口大小	Φ5.5mm
Distance 感應距離	> 35m(0.1m ² 探測面)
Interior Diagram 內部方框圖	
Typical Application Circuit 典型應用電路	
Dimensions 外觀尺寸圖	

Product Description 產品概述

Spot-type multiband infrared flame detection technology is one of the best solutions to fire warning at present. It pre-warns fire disasters by detecting the special infrared ray. It has faster response than that of traditional smog or heat type fire detection technology, especially, the warning time can be 80% earlier in the open air. It provides more protection for people life and property safety.

點型多波段紅外火焰探測技術是目前火災及時預警的最佳方案之一，該技術通過探測火焰所發出的特徵紅外線來預警火災，比傳統感煙或感溫式火災探測技術響應速度更快，尤其在開放式空間，提前預警時間能夠超過80%，為人們生命財產安全提供更多保障。

Features 產品特性

Flame detector is made up of ultra-thin LiTaO3 single crystal sensitive elements, low-noise JEFT, and high transmittance filters. It has high response rate, strong anti-interference, and international advanced features.

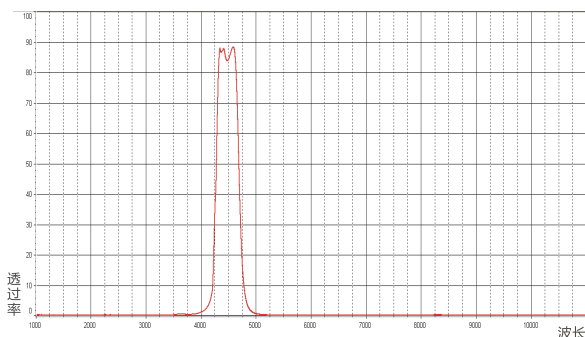
本探測器由超薄鉬酸鋰單晶敏感元、低噪聲結型場效應管、高透過率窄帶濾光片等部件組成，探測器響應率高、抗干擾能力強，綜合性能達到國際先進水平。

Applications 用途

Flame detector has been widely-used in all kinds of oil storage facilities, and large warehouses etc. It has become the standard equipments for high-risk fire areas, such as petroleum, chemical industry, paper making, metallurgy, nuclear power plants. It has also been more and more popular among high-level residence, commercial districts, and general industrial districts.

廣泛應用於各類儲油設施、大型倉庫等場所，成為石油、化工、造紙、冶煉、核電站等火災高危領域標準配置，同時也在高端住宅、商業、普通工業等領域逐漸得到普及。

The transmission spectrum of the window material 窗口材料的透射光譜



Technical Parameter 性能參數

Specifications 技術指標	Symbol 符號	Typical value 典型值	Unit 單位
Element size 敏感區域尺寸	A_s	$\Phi 2.5$	mm
Electrical time constant 電時間常數	τ_E	6	s
Thermal time constant 熱時間常數	τ_T	200	ms
Offset voltage 源極直流工作電壓	V_s	0.4~0.7	V
Voltage responsivity 電壓響應率	R_v	> 500	V/W
Detectivity 比探測率	D	$> 4 \times 10^8$	$\text{cm Hz}^{1/2}/\text{W}$
Noise 輸出噪聲電壓	V_n	< 170	$\text{nVrms}/\text{Hz}^{1/2}$
Field of view 視場角	FOV	> 110	度
Operating temperature 工作溫度範圍		-40~80	$^{\circ}\text{C}$

Typical Filters parameters 濾光片參數

Typical Filters parameters, and other parameters can be customized. 典型濾光片參數,其他參數可根據客戶具體要求定制

CWL 中心波長 (nm)	3800 ± 40	3950 ± 30	4300 ± 50	4400 ± 50	5000 ± 50	5300 ± 50
HPB 半高寬 (nm)	180 ± 20	90 ± 20	600 ± 30	400 ± 10	180 ± 20	180 ± 30
Type 型號	LVF001-H-YY	LVF001-A-YY	LVF001-B-YY	LVF001-I-YY	LVF001-G-YY	LVF001-D-YY

Field of View 探測視角

