# XFPM(MAP) Data sheet

## ■Features

- Accuracy, ±1.8%FS
- Gasoline vapor measurable
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span

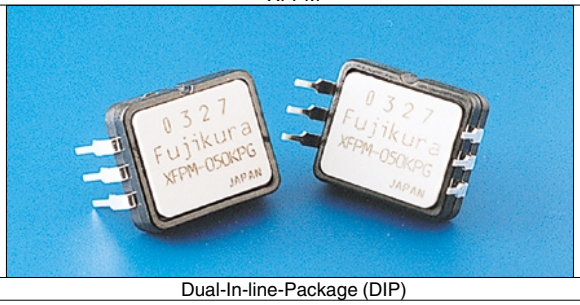
## ■Applications

- Automotive system
- Industrial instrumentation
- Medical device
- Barometer, Relative altimeter
- Altitude compensation

## ■Part number for ordering

**XFPM - 105KP A R**

- XFPM — Model XFPM
- 105KP — Rated pressure (Pa)
- A — Pressure type A : Absolute
- R — Terminal leads direction (See Outline Diagram)
  - No mark :
  - R :

| Pressure type | Absolute pressure |
|---|---|
| Model | XFPM |
| |  |
| Package configuration | Dual-In-line-Package (DIP) |

| Measurable pressure range (kPa) | Part number for ordering |
|---|---|
| 17～105 | XFPM-105KPA |
| | XFPM-105KPAR |

## ■Specifications

| Model/Rated pressure | 105KPA | Unit |
|---|---|---|
| **Recommended operating conditions** | | |
| **Pressure type** | Absolute pressure | — |
| **Rated pressure** | 105 | kPa·abs |
| **Measurable pressure range** | 17～105 | kPa·abs |
| **Pressure media** | Air＆Gasoline vapor | — |
| **Excitation voltage** | 5±0.25 | VDC |
| **Absolute maximum rating** | | |
| **Maximum load pressure** | Twice of rated pressure | kPa·abs |
| **Maximum excitation voltage** | 8 | VDC |
| **Operating temperature** | −40～125 | ℃ |
| **Storage temperature** | −40～125 | ℃ |
| **Operating humidity** | 30～80 (No dew condensation) | %RH |
| **Electric performances/characteristics (Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25℃)** | | |
| **Current consumption** | less than 10 | mA |
| **Output impedance** | less than 10 | Ω |
| **Source current** | less than 0.2 | mA |
| **Sink current** | less than 2 | mA |
| **Mechanical response time** | 2 (For the reference) | msec |
| **Full scale span voltage** | 4.5 | V |
| **Offset voltage※** | 0.25±0.081 | V |
| **Full scale span voltage※** | 4.75±0.081 | V |
| **Accuracy※** | ±1.8 | %FS/0～850℃ |

Note ; ※1) Excluding input voltage error.
※2) Excludes offset calibration error and temperature error of offset.



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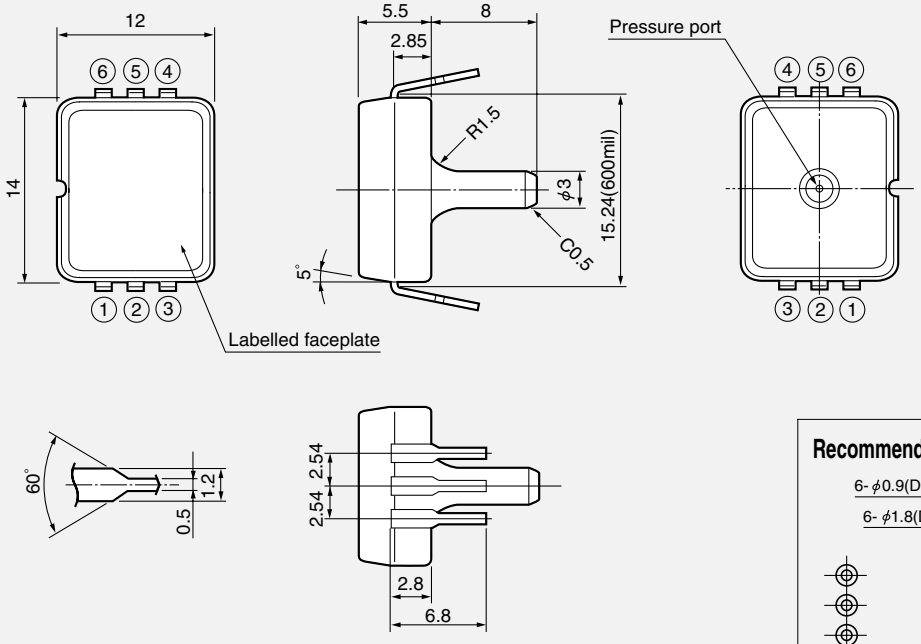
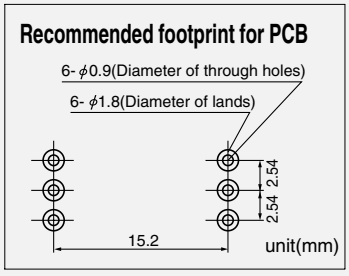
## ■ Outline dimensions ■

Unit (mm)

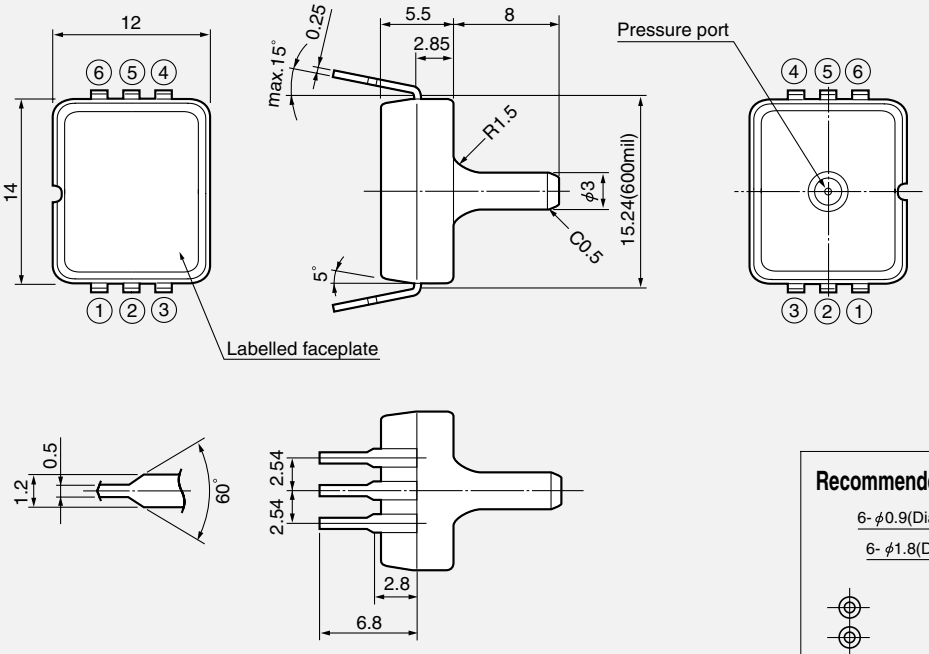
### XFPM (Absolute pressure)

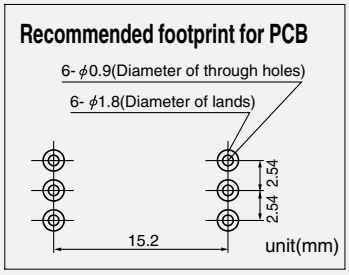



Unit (mm)

### XFPM-R (Absolute pressure)



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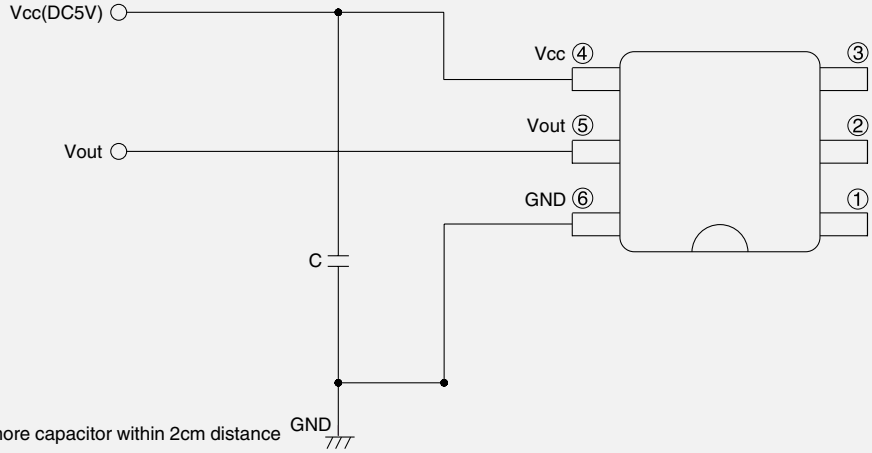
## ■ Connection diagram ■

### XFPM




Remarks :
1) C : Connect 0.01 $\mu$F or more capacitor within 2cm distance from leads.
2) 4 and 5 pins must be No Connection. Open them as floating ones completely, and do NOT connect to other line or each other.

Note ; Please read instruction “Notes” before using the sensor.
Fujikura reserves the right to change specifications without notice.

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