## ■Features

- Two accuracy ranks, ±1.5%FS and± 2.5%FS available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span

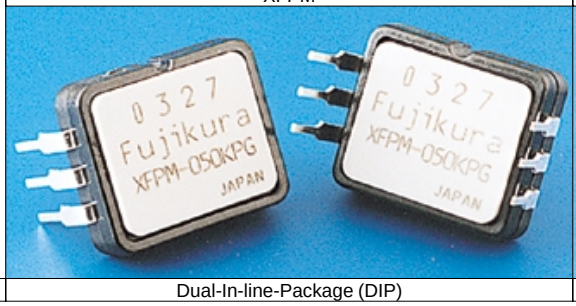
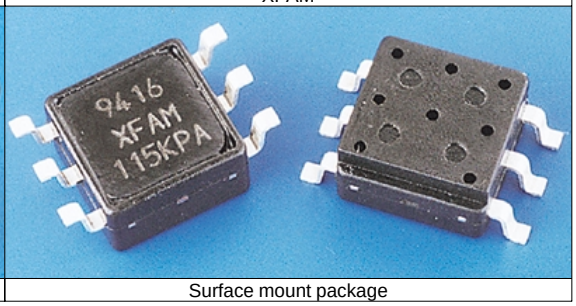
## ■Applications

- Industrial instrumentation
- Medical device
- Barometer, Altimeter
- Altitude compensation

## ■Part number for ordering

**XFAM - 115KP A S R H**

- Model: XFPM, XFAM
- Rated pressure (Pa)
- Pressure type: A : Absolute
- Terminal leads configuration: No mark : DIP(XFPM); S : Surface mount package(XFAM)
- Terminal leads direction (See Outline Diagram): No mark : ; R :
- Accuracy: No mark : ±2.5%FS; H : ±1.5%FS(Contact us about availability)

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

| Measurable pressure range (kPa) | Part number for ordering | | |
|---|---|---|---|
| 15～115 | XFPM-115KPA | XFPM-115KPAR | XFAM-115KPASR |

## ■Specifications

| Model/Rated pressure | 115KPA | Unit |
|---|---|---|
| **Recommended operating conditions** | | |
| **Pressure type** | Absolute pressure | — |
| **Rated pressure** | 115 | kPa·abs |
| **Measurable pressure range** | 15～115 | kPa·abs |
| **Pressure media** | Non-corrosive gas only | — |
| **Excitation voltage** | 5±0.25 | VDC |
| **Absolute maximum rating** | | |
| **Maximum load pressure** | Twice of rated pressure | — |
| **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 ※** | 0.2±0.1125, 0.2±0.0675(H) | V |
| **Full scale span voltage ※** | 4.7±0.1125, 4.7±0.0675(H) | V |
| **Accuracy ※** | ±2.5, ±1.5(H) | %FS/0～85℃ |

Note ; ※Excluding input voltage error.
※Please consult us available liquid pressure media when you chose the H models.

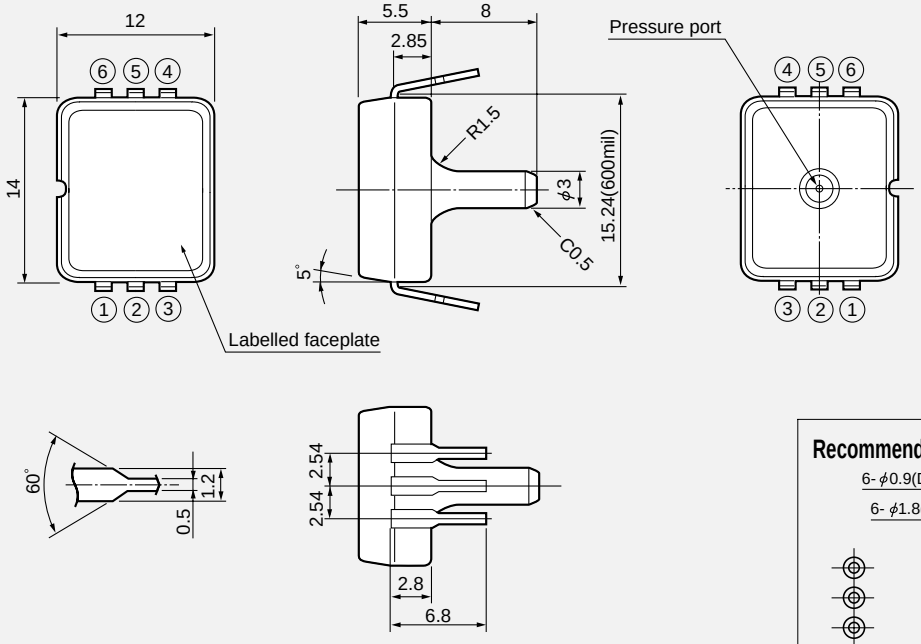


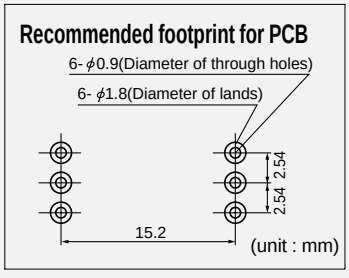
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## ■ Outline dimensions ■

Unit : mm

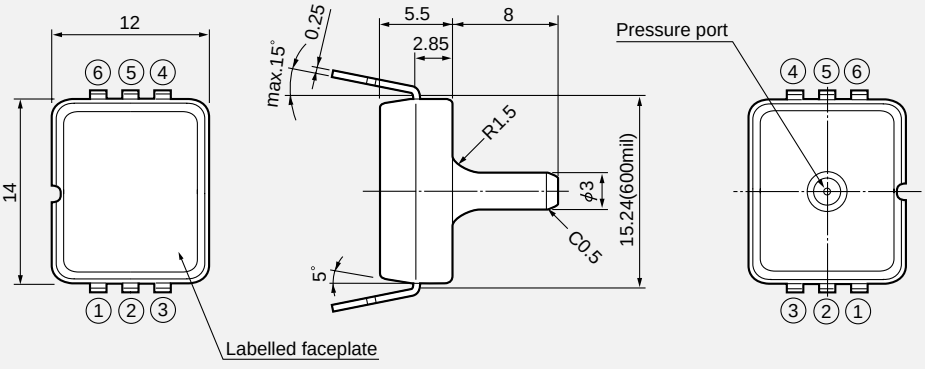
### XFPM (Absolute pressure)

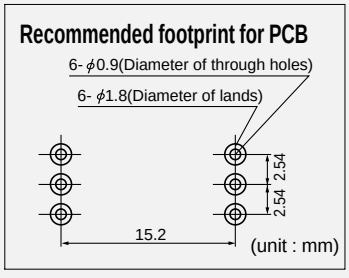



Unit : mm

### XFPM-R (Absolute pressure)



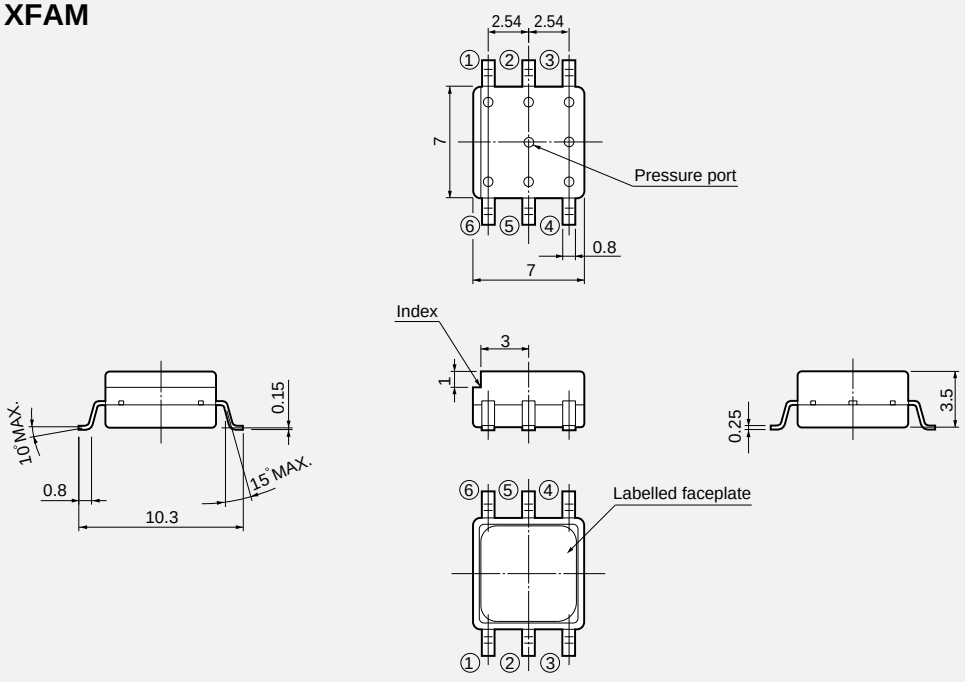


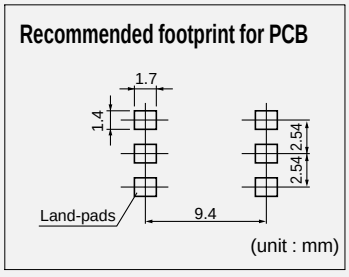

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## ■ Outline dimensions ■

Unit : mm

**XFAM**




## ■ Transfer Function ■

Vout=Vs×(P×α+β)±(Pressure Error×Temperature Error Multiplier×α× Vs)

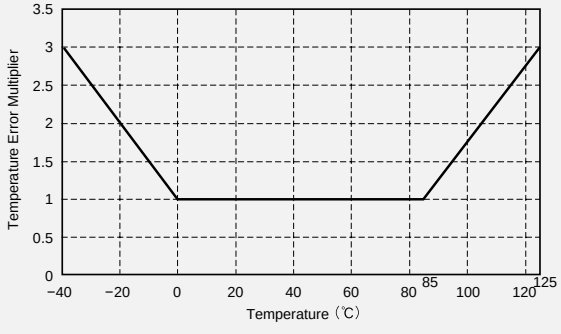
※Vs=5.0volts

Notes ; The output voltage (Vout) is no perfect ratiometric with the power supply voltage.

※P=Input Pressure(kPa)

| Model | pressure range | α | β | Pressure Error(kPa) |
|---|---|---|---|---|
| 025KPG(D) | 0～25kPa | 0.036 | 0.04 | 0.625 |
| 050KPG(D) | 0～50kPa | 0.018 | 0.04 | 1.25 |
| 100KPG(D) | 0～100kPa | 0.009 | 0.04 | 2.5 |
| 100KPGV | 0～－100kPa | －0.009 | 0.04 | 2.5 |
| 100KPGW(DW) | －100～+100kPa | 0.0045 | 0.49 | 5.0 |
| 200KPG(D) | 0～200kPa | 0.0045 | 0.04 | 5.0 |
| 001MPG(D) | 0～1MPa | 0.0009 | 0.04 | 25 |
| 115KPA | 15～115kPa.abs | 0.009 | －0.095 | 2.5 |

※Temperature Error Multiplier

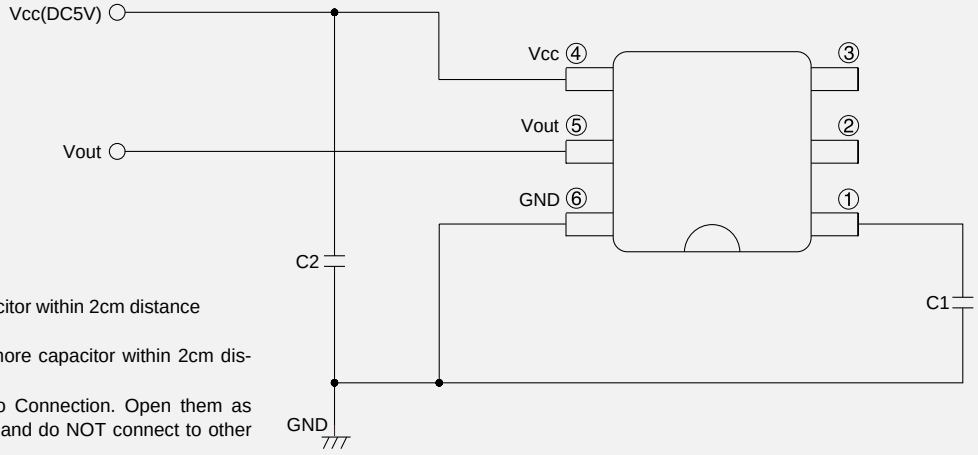





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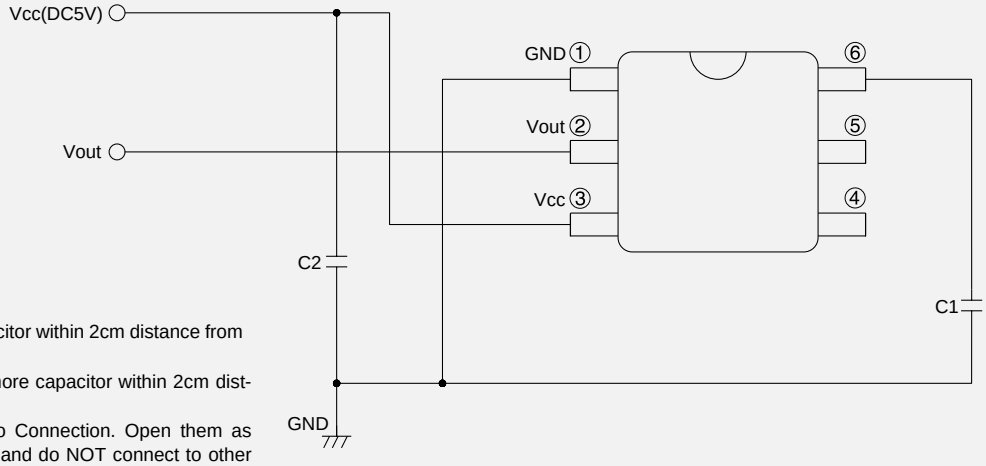
## ■ Connection diagram ■

### XFPM (Absolute pressure)




Remarks :
1) C1 : Connect 680pF capacitor within 2cm distance from leads.
2) C2 : Connect 0.01$\mu$F or more capacitor within 2cm distance from leads.
3) 2 and 3 pins must be No Connection. Open them as float-ing ones completely, and do NOT connect to other line or each other.

### XFAM




Remarks :
1) C1 : Connect 680pF capacitor within 2cm distance from leads.
2) C2 : Connect 0.01$\mu$F or more capacitor within 2cm distance from leads.
3) 4 and 5 pins must be No Connection. Open them as float-ing 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.

Fujikura Ltd.
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