

Features

- Accuracy, $\pm 1.8\%$ 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

Model
XFPM

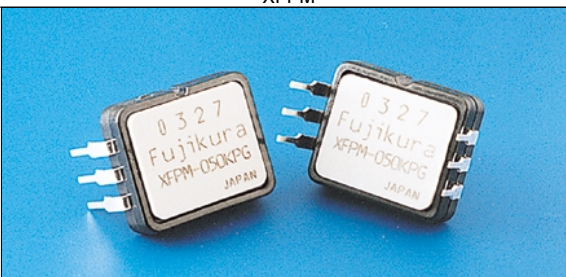
Rated pressure (Pa)

Pressure type
A : Absolute

Terminal leads direction (See Outline Diagram)

No mark : 

R : 

Pressure type	Absolute pressure XFPM
Model	
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	$-40 \sim 125$	$^{\circ}\text{C}$
Storage temperature	$-40 \sim 125$	$^{\circ}\text{C}$
Operating humidity	$30 \sim 80$ (No dew condensation)	%RH
Electric performances/characteristics (Excitation voltage $V_{CC}=5.0\text{V}$ constant, Ambient temperature $T_a=25^{\circ}\text{C}$)		
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 $^{\circ}\text{C}$

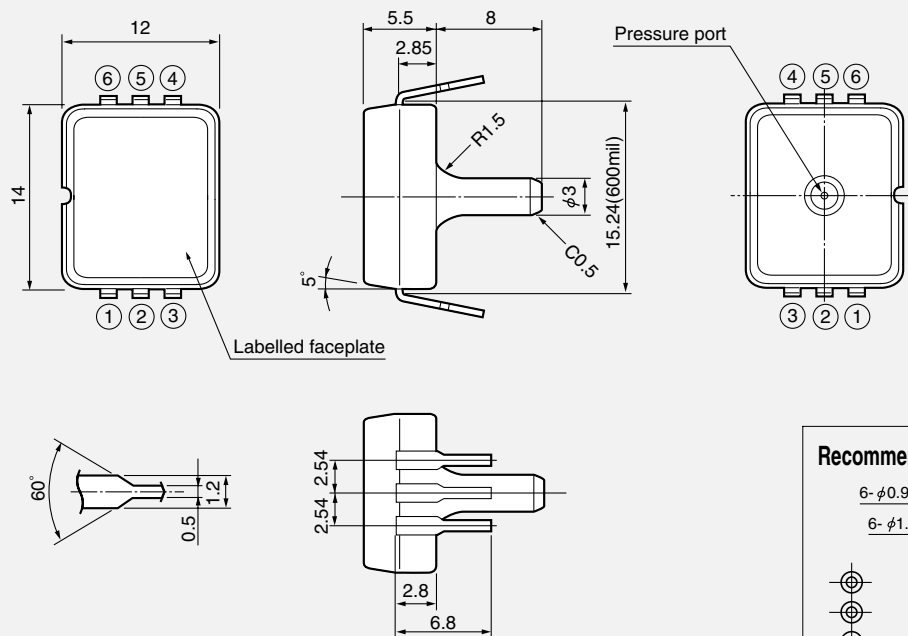
Note ; ※1) Excluding input voltage error.

※2) Excludes offset calibration error and temperature error of offset.

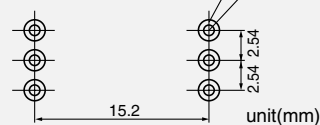
Outline dimensions

Unit (mm)

XFPM (Absolute pressure)

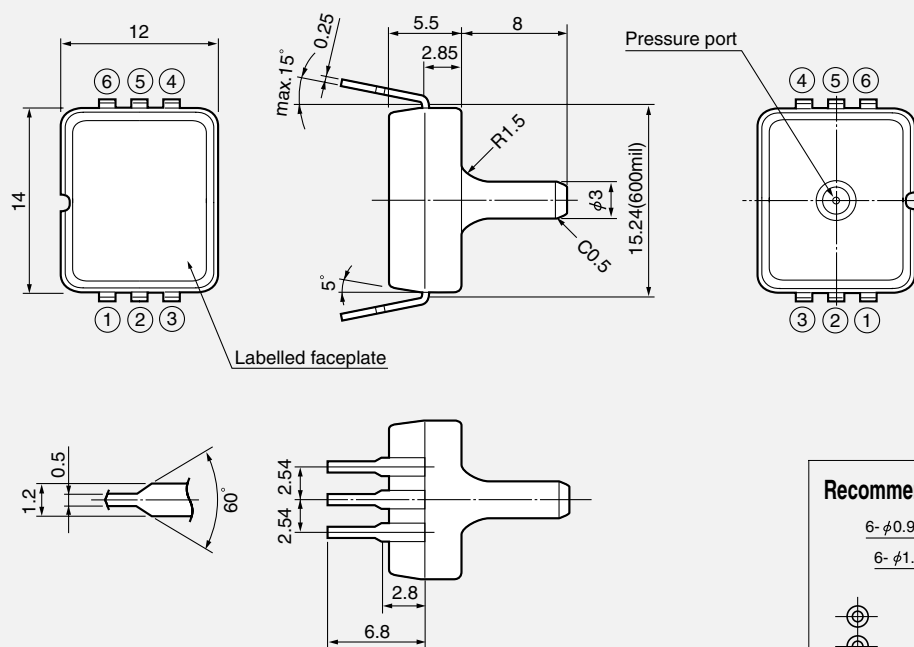


Recommended footprint for PCB

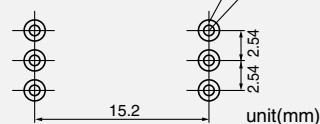
6- $\phi 0.9$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

XFPM-R (Absolute pressure)

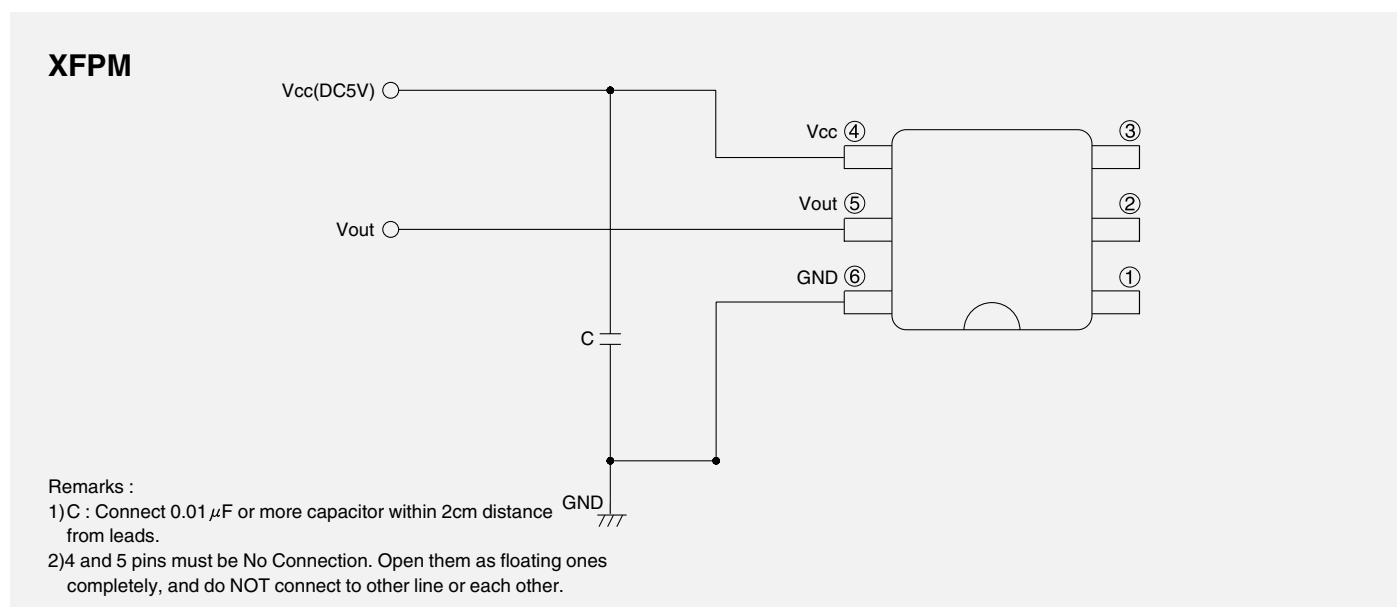
Unit (mm)



Recommended footprint for PCB

6- $\phi 0.9$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

■ Connection diagram ■



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

Fujikura Ltd.

If you have any questions regarding technical issues or specifications, please contact us.
Sensor Engineering Department 5-1 Kiba 1-chome, Koto-ku, Tokyo 135-8512, Japan
Phone +81-(0)3-5606-1072 Fax. +81-(0)3-5606-1538
E-mail : sensor@fujikura.co.jp