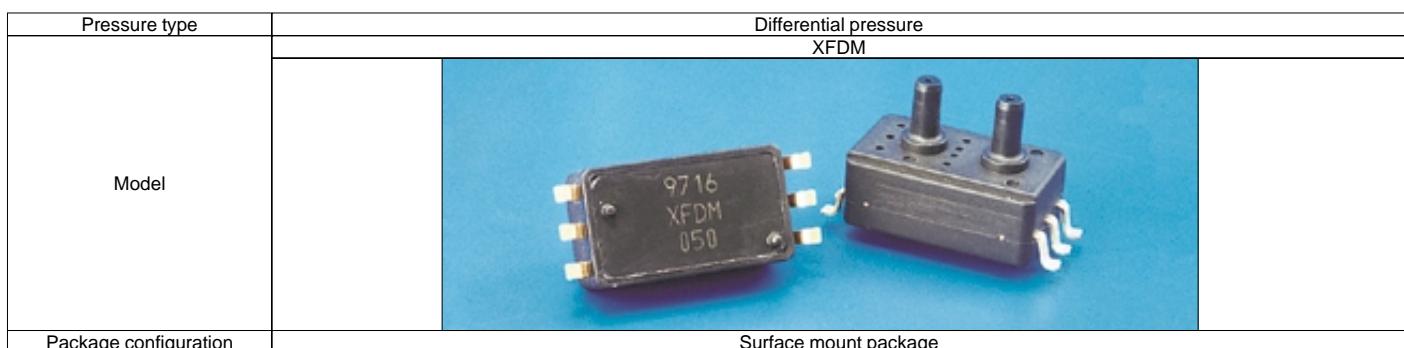
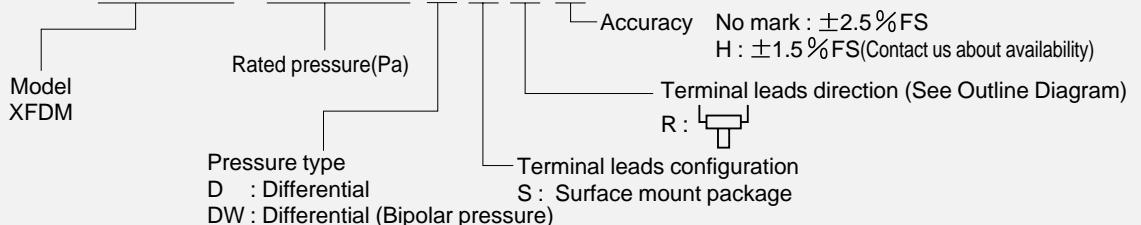


■Features

- Two accuracy ranks, $\pm 1.5\%$ FS and $\pm 2.5\%$ FS available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Very small surface mountable package, Easy to mount on PCB

■Part number for ordering

XFDM - 025KP D S R H



Measurable pressure range (kPa)	Part number for ordering
-100~100	XFDM-100KPDWSR
0~25	XFDM-025KPDSR
0~50	XFDM-050KPDSR
0~100	XFDM-100KPDSR
0~200	XFDM-200KPDSR
0~1000	XFDM-001MPDSR

■Specifications

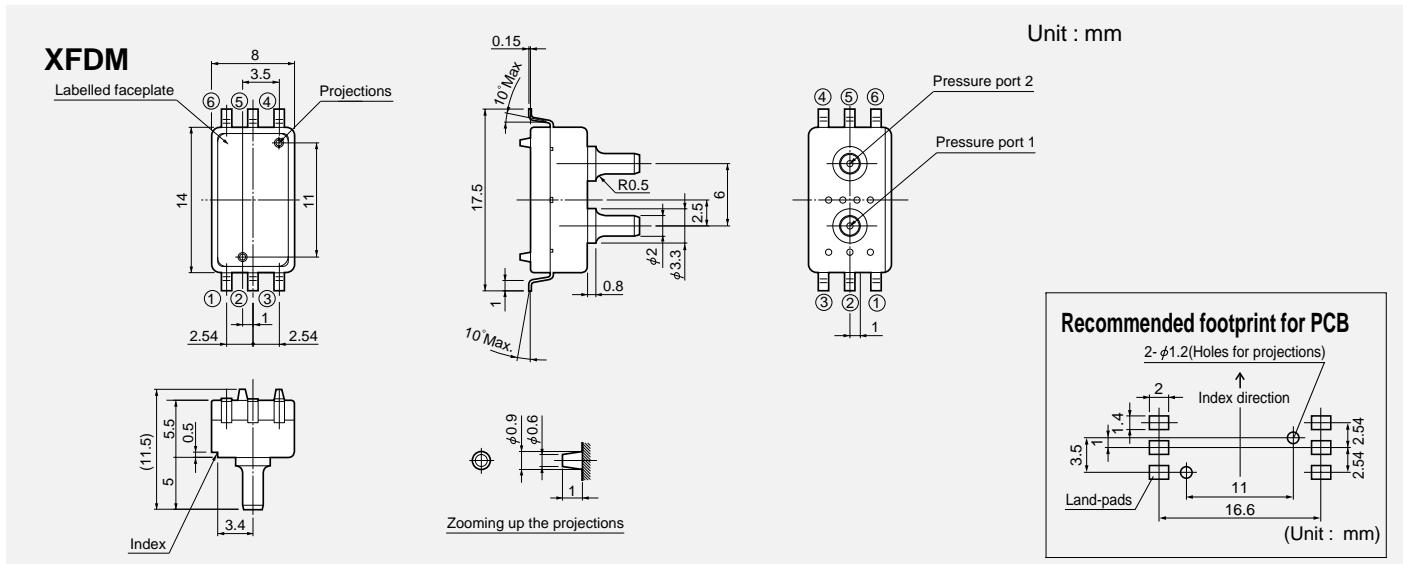
Model/Rated pressure	100KPDW	025KPD	050KPD	100KPD	200KPD	001MPD	Unit
Recommended operating conditions							
Pressure type							—
Rated pressure	± 100	25	50	100	200	1000	kPa
Measurable pressure range	-100~100	0~25	0~50	0~100	0~200	0~1000	kPa
Pressure media	Non-corrosive gas only						—
Excitation voltage	5.0 ± 0.25						VDC
Absolute maximum rating							
Maximum load pressure	Twice of rated pressure						1.5times of rated pressure
Maximum excitation voltage	8						VDC
Operating temperature	-40~125						°C
Storage temperature	-40~125						°C
Operating humidity	30~80 (No dew condensation)						%RH
Electric performances/characteristics (Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25°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 $\otimes 1, 2, 3$	$0.2 \pm 0.1125, 0.2 \pm 0.0675(H)$						V
Full scale span voltage $\otimes 1, 2, 3$	$4.7 \pm 0.1125, 4.7 \pm 0.0675(H)$						V
Accuracy $\otimes 2, 3$	$\pm 2.5, \pm 1.5(H)$						%FS/0~85°C

Note ; $\otimes 1$) Output refers to pressure at pressure port 2.

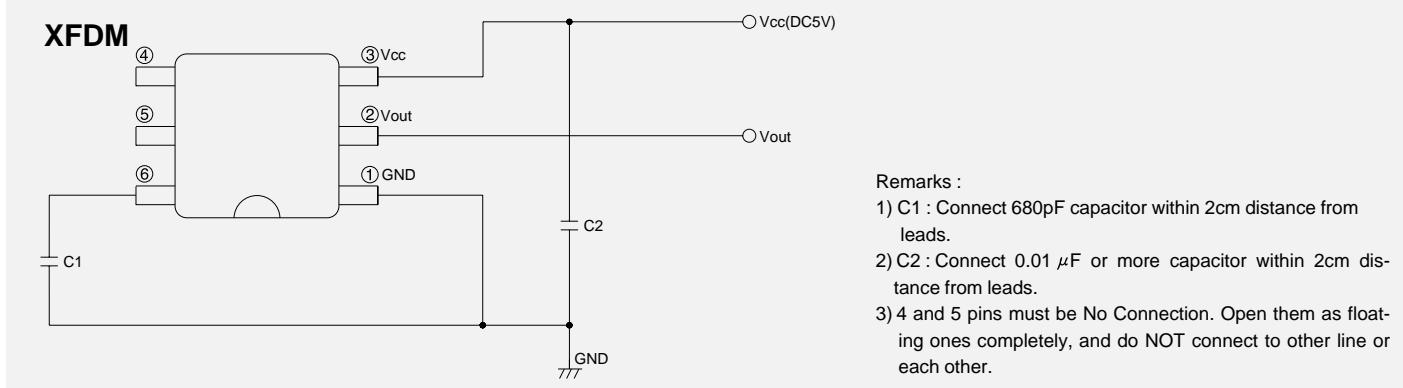
$\otimes 2$) Excluding input voltage error.

$\otimes 3$) Please consult us availability when you choose the H models.

■Outline dimensions■



■Connection diagram■



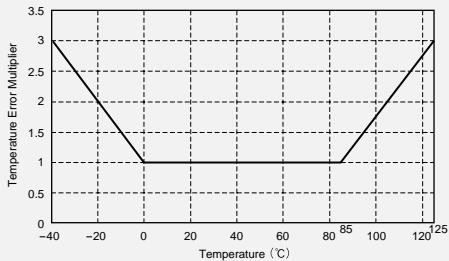
■ Transfer Function ■

$$V_{out} = V_s \times (P \times \alpha + \beta) \pm (\text{Pressure Error} \times \text{Temperature Error Multiplier} \times \alpha \times V_s)$$

*Vs=5.0volts Notes ; The output voltage (Vout) is no perfect ratiometric with the power supply voltage.

*P=Input Pressure(kPa)

*Temperature Error Multiplier



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.
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