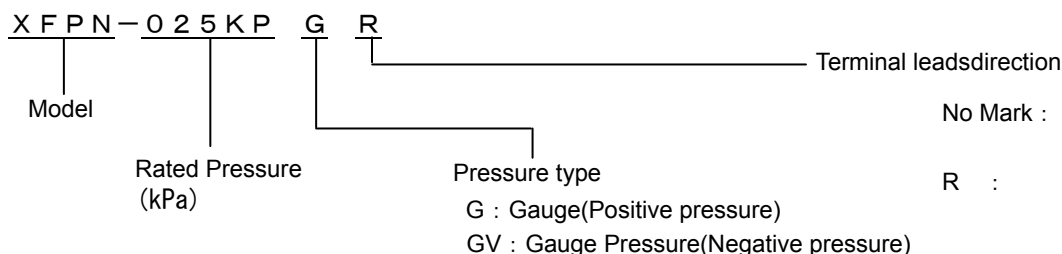


■Features

- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Dual-in-line package (DIP)

■Ordering Information



Measurable pressure range(kPa)	Part number	
0 to -24.5	XFPN-03PGV	XFPN-03PGVR
0 to -100	XFPN-100KPGV	XFPN-100KPGVR
0 to 25	XFPN-025KPG	XFPN-025KPGR
0 to 50	XFPN-050KPG	XFPN-050KPGR
0 to 100	XFPN-100KPG	XFPN-100KPGR
0 to 200	XFPN-200KPG	XFPN-200KPGR

■Specifications

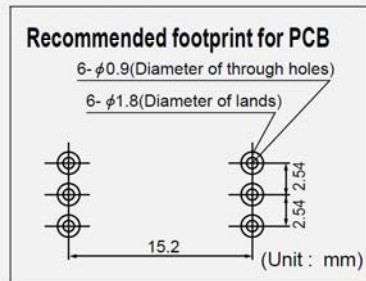
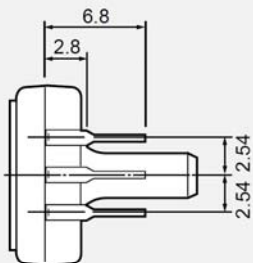
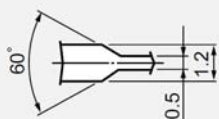
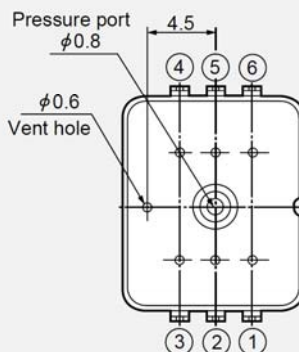
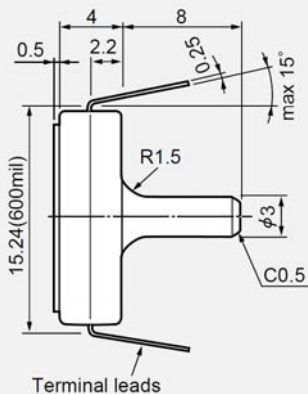
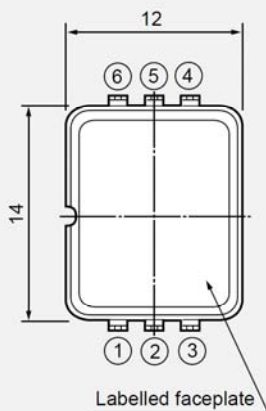
Model	03PGV	100KPGV	025KPG	050KPG	100KPG	200KPG	Unit
Recommended operating conditions							
Pressure type	Gauge pressure						-
Rated pressure	-24.5	-100	25	50	100	200	kPa
Measurable pressure range	0 to -24.5	0 to -100	0 to 25	0 to 50	0 to 100	0 to 200	kPa
Temperature range	0 to 50						deg.C
Pressure media	Non-corrosive gases only (No liquid)						-
Excitation current (Constant)	5+/-0.25						VDC
Absolute maximum rating							
Maximum load pressure	Twice of rated pressure						-
Maximum excitation voltage	8						VDC
Operating temperature	-10 to 80						deg.C
Storage temperature	-20 to 100						deg.C
Operating humidity	30 to 80 (Non dew condition)						%RH
Electrical characteristics (Excitation voltage Vcc=5.0V constant , ambient temperature Ta=25deg.C)							
Power consumption	10mA max.						mA
Output impedance	10Ω max.						Ω
Source current	0.2mA max.						mA
Sink current	2mA max.						mA
Response time	2 (for the reference)						msec.
Output span voltage	4.0						V
Offset voltage *	0.5V(at 0kPa) +/-0.1V(25deg.C) , +/-0.2V(0 to 50deg.C)						V
Output voltage at full scale *	4.5V(at rated pressure) +/-0.1V(25deg.C) , +/-0.2V(0 to 50deg.C)						V
Accuracy *	+/-5.0						%FS/0-50deg.C

* Excluding input voltage error.

■ Outline dimensions ■

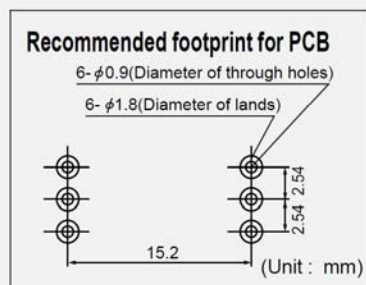
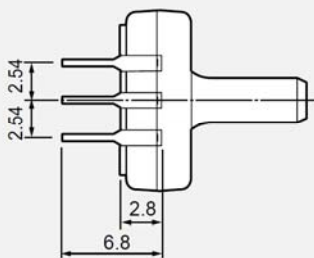
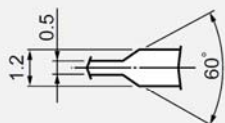
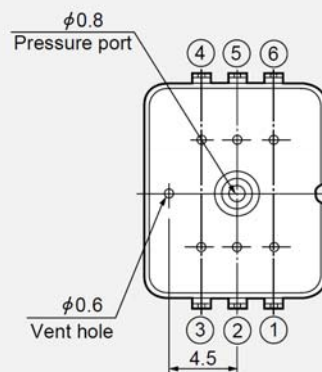
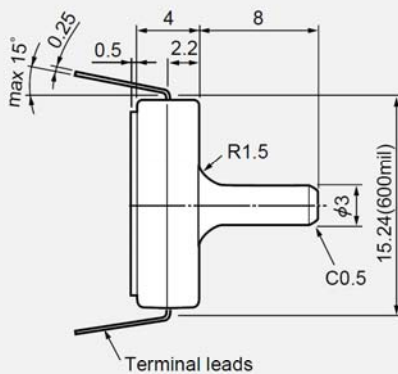
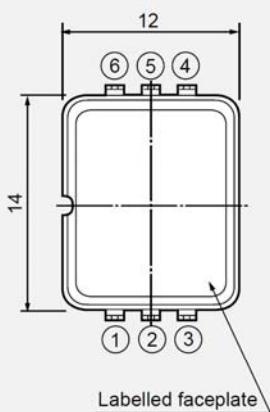
XFPN

Unit : mm

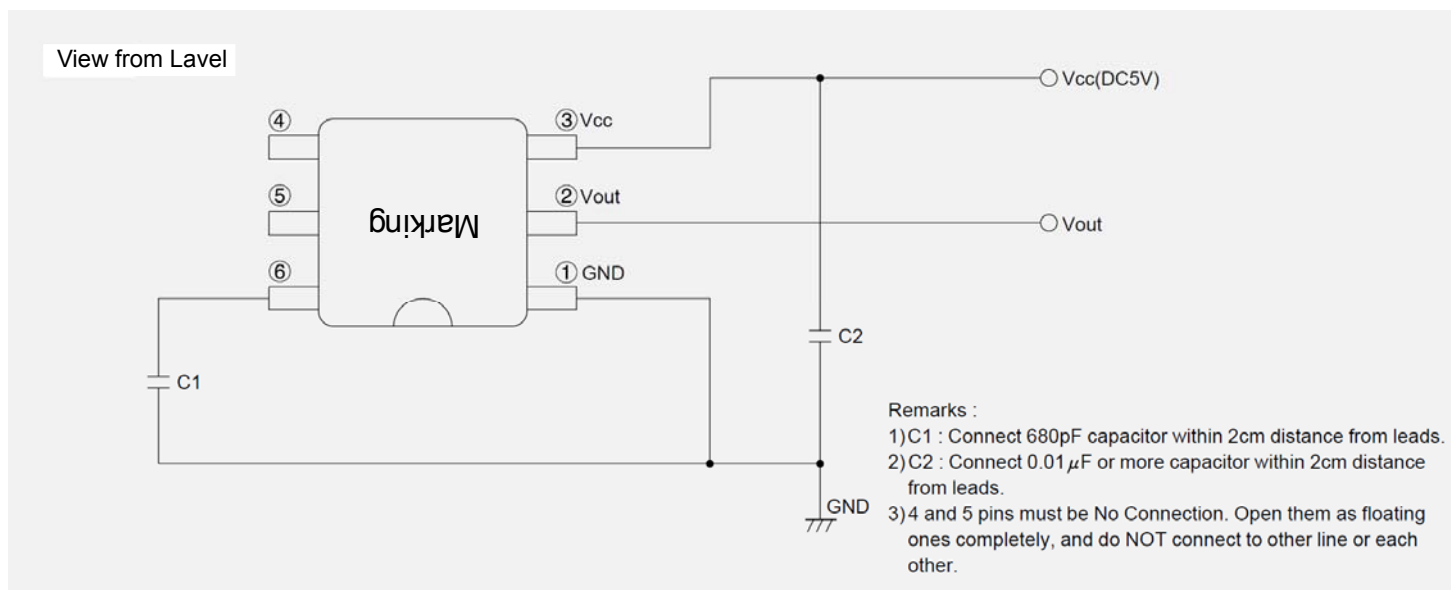


XFPN-R

Unit : mm



■Connection diagram■



■Transfer Function■

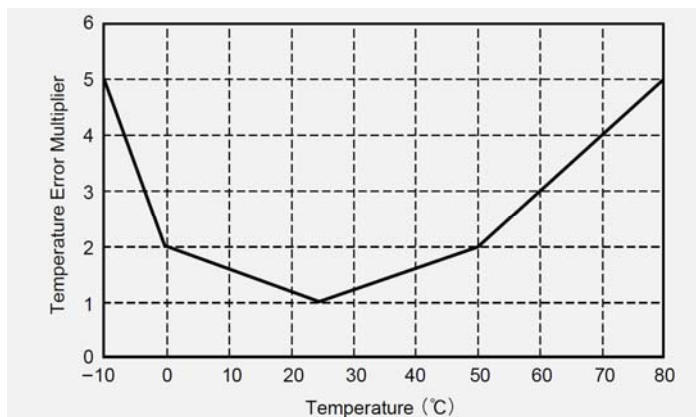
$$V_{out} = V_s \times (P \times \alpha + \beta) \pm (\text{Pressure Error} \times \text{Temperature Error Multiplier} \times \alpha \times V_s)$$

$$V_s = V_{cc} = 5.0V$$

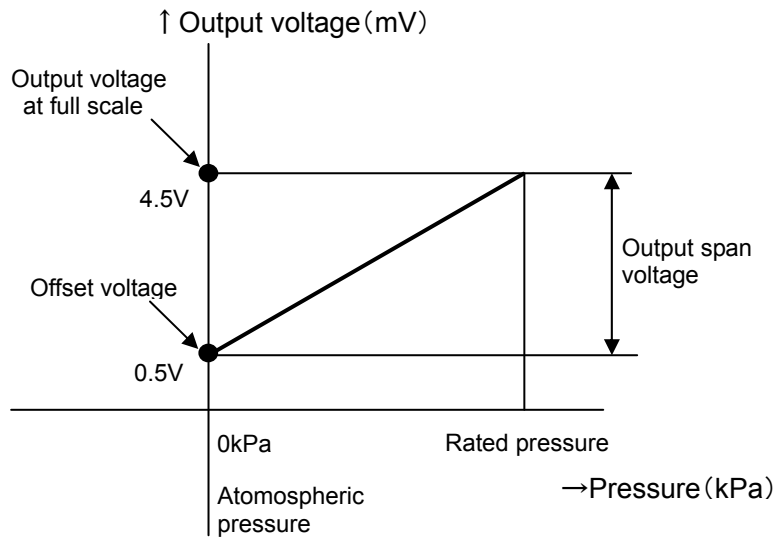
$$P = \text{Input pressure (kPa)}$$

Model		Measurable pressure range(kPa)	α	β	Pressure Error (kPa)
XFPN-03PGV	XFPN-03PGVR	0 to -24.5	-0.03266	0.1	0.612
XFPN-100KPGV	XFPN-100KPGVR	0 to -100	-0.008	0.1	2.5
XFPN-025KPG	XFPN-025KPGR	0 to 25	0.032	0.1	0.625
XFPN-050KPG	XFPN-050KPGR	0 to 50	0.016	0.1	1.25
XFPN-100KPG	XFPN-100KPGR	0 to 100	0.008	0.1	2.5
XFPN-200KPG	XFPN-200KPGR	0 to 200	0.004	0.1	5

Temperature Error Multiplier



■Output characteristics■



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

Please keep the sensors sealed using static shielding bags on storage. The pins of the sensor are plated by Ag. If the sensors expose to an atmosphere, the pins will be black by sulfuration.

Please set Zero-calibration function up your products. The offset voltage may be shifted some mechanical stress such as mounting, installation and etc. over longtime using.

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

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