

Features

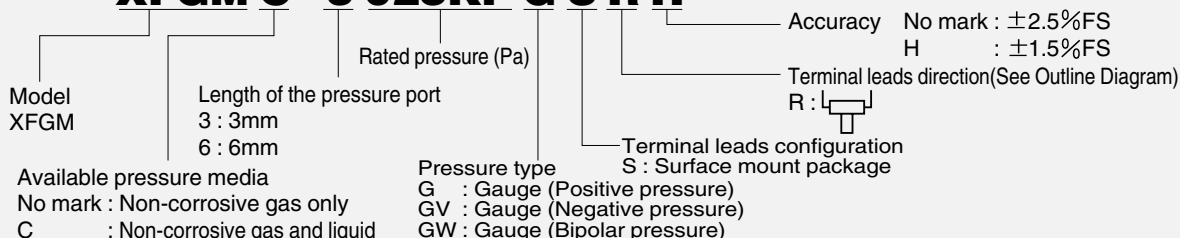
- Two accuracy ranks, $\pm 1.5\%$ FS and $\pm 2.5\%$ FS available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Non-corrosive liquid measurable (XFGMC only)

Applications

- Industrial instrumentation
- Pressure switch, Pneumatic device
- Medical device

Part number for ordering

XFGM C - 3 025KP G S R H



Pressure type	Gauge pressure	
	XFGM-3	XFGM-6
Model		
Package configuration	Surface mount package, 3mm pressure port	Surface mount package, 6mm pressure port

Measurable pressure range (kPa)	Part number for ordering							
-100~100	XFGM-3100KPGWSR	XFGM-3100KPGWSRH	XFGMC-3100KPGWSR	XFGMC-3100KPGWSRH	XFGM-6100KPGWSR	XFGM-6100KPGWSRH	XFGMC-6100KPGWSR	XFGMC-6100KPGWSRH
0~-100	XFGM-3100KPGVSR	XFGM-3100KPGVSRH	XFGMC-3100KPGVSR	XFGMC-3100KPGVSRH	XFGM-6100KPGVSR	XFGM-6100KPGVSRH	XFGMC-6100KPGVSR	XFGMC-6100KPGVSRH
0~25	XFGM-3025KPGSR	XFGM-3025KPGSRH	XFGMC-3025KPGSR	XFGMC-3025KPGSRH	XFGM-6025KPGSR	XFGM-6025KPGSRH	XFGMC-6025KPGSR	XFGMC-6025KPGSRH
0~50	XFGM-3050KPGSR	XFGM-3050KPGSRH	XFGMC-3050KPGSR	XFGMC-3050KPGSRH	XFGM-6050KPGSR	XFGM-6050KPGSRH	XFGMC-6050KPGSR	XFGMC-6050KPGSRH
0~100	XFGM-3100KPGSR	XFGM-3100KPGSRH	XFGMC-3100KPGSR	XFGMC-3100KPGSRH	XFGM-6100KPGSR	XFGM-6100KPGSRH	XFGMC-6100KPGSR	XFGMC-6100KPGSRH
0~200	XFGM-3200KPGSR	XFGM-3200KPGSRH	XFGMC-3200KPGSR	XFGMC-3200KPGSRH	XFGM-6200KPGSR	XFGM-6200KPGSRH	XFGMC-6200KPGSR	XFGMC-6200KPGSRH
0~1000	XFGM-3001MPGSR	XFGM-3001MPGSRH	XFGMC-3001MPGSR	XFGMC-3001MPGSRH	XFGM-6001MPGSR	XFGM-6001MPGSRH	XFGMC-6001MPGSR	XFGMC-6001MPGSRH

Specifications

Model/Rated pressure	100KPGW(H)	100KPGV(H)	025KPG(H)	050KPG(H)	100KPG(H)	200KPG(H)	001MPG(H)	Unit
Recommended operating conditions								
Pressure type	Gauge pressure							—
Rated pressure	±100	—100	25	50	100	200	1000	kPa
	±1.020	—1.020	0.255	0.510	1.020	2.040	10.20	kg/cm²
Measurable pressure range	—100~100	0~—100	0~25	0~50	0~100	0~200	0~1000	kPa
Pressure media ※1	XFGM : Non-corrosive gas only, XFGMC : Non-corrosive gas and liquid							—
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							℃
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 ※2	0.2±0.1125, 0.2±0.0675(H)							V
Full scale span voltage ※2	4.7±0.1125, 4.7±0.0675(H)							V
Accuracy ※2	2.5, ±1.5(H)							%FS/0~85℃

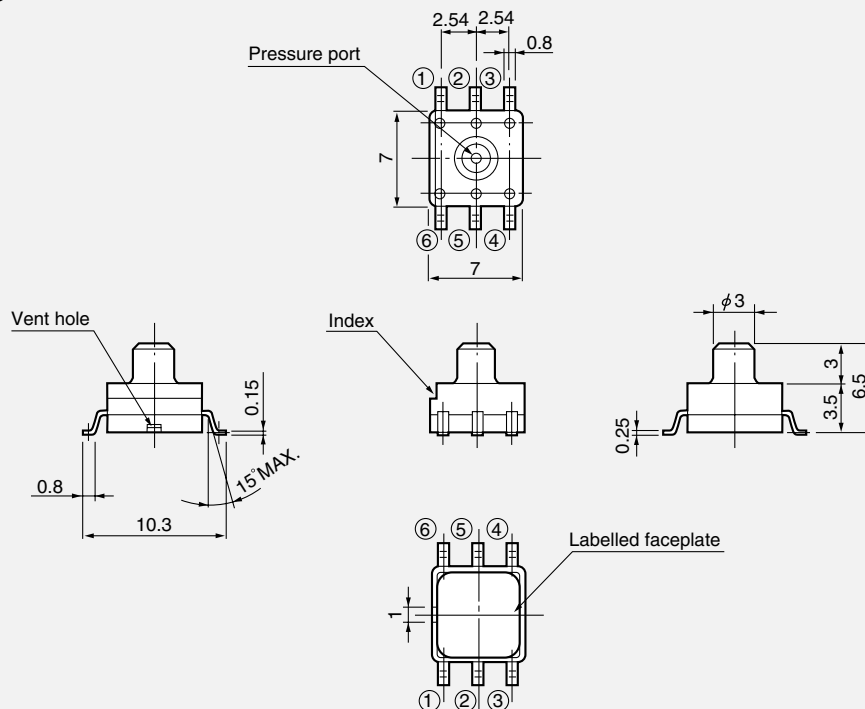
Note ; ※1) Please consult us available liquid pressure media when you choose the C models.

※2) Excluding input voltage error.

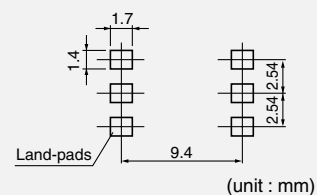
Outline dimensions

unit : mm

XFGM-3

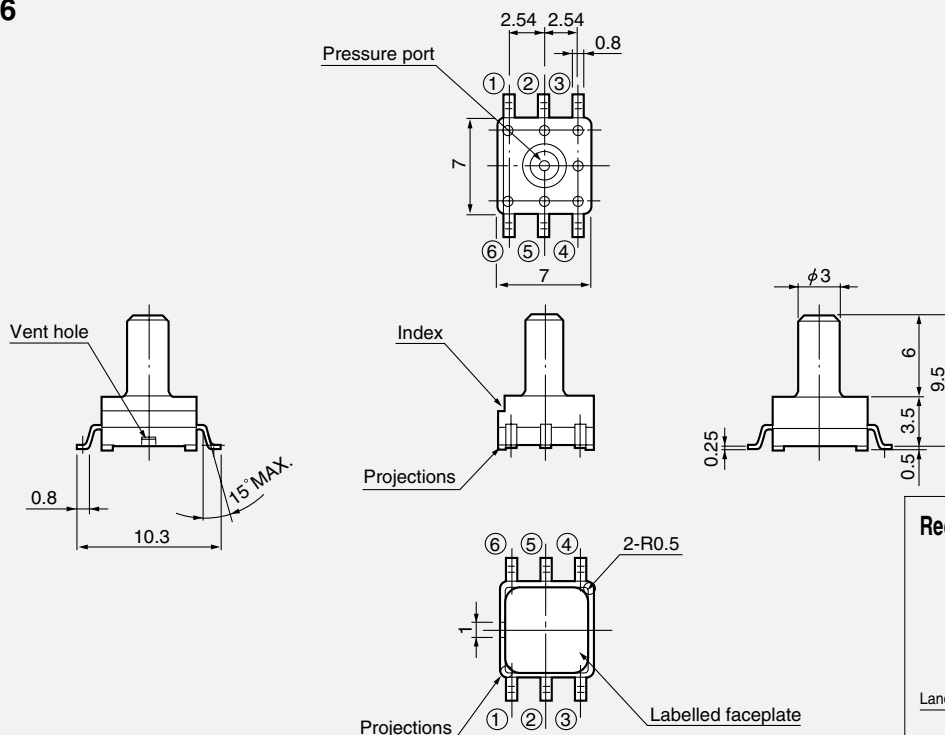


Recommended footprint for PCB

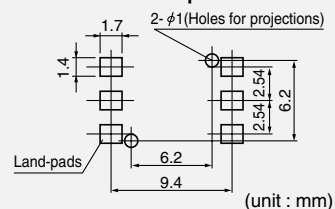


XFGM-6

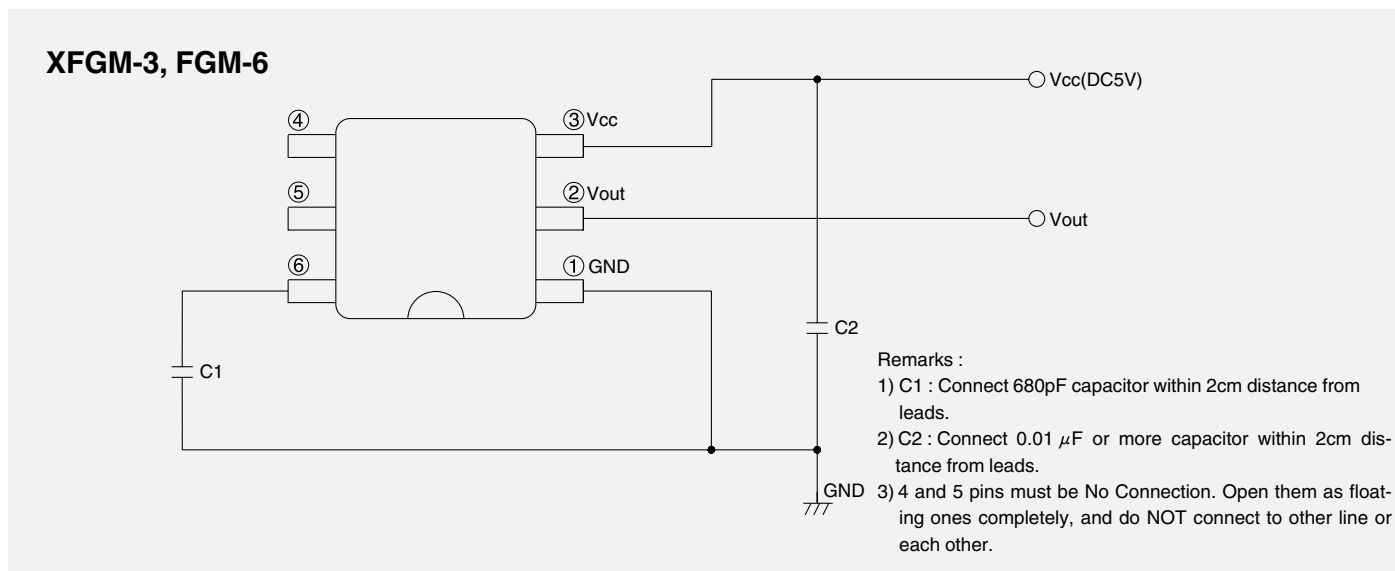
unit : mm



Recommended footprint for PCB



■ 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