Pre-amplified／5V Excitation／Absolute

XFPM-A Data sheet

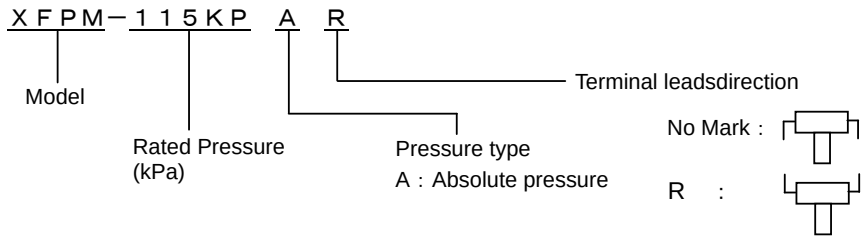
■Features

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

■Applications

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

■Part number for ordering



Weight (grams)
1.5

RoHS compliance

Measurable pressure range(kPa·abs)	Part number for ordering	
15～115	XFPM-115KPA	XFPM-115KPAR

■Specifications

Model	XFPM-115KPA ／ XFPM-115KPAR	Unit
Recommended operating conditions		
Pressure type	Absolute pressure	―
Rated pressure	115	kPa·abs
Measurable pressure range	15～115	kPa·abs
Temperature range	0～85	℃
Pressure media	Non-corrosive gases only (No liquid)	―
Supply voltage（constant）	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 (Non dew condition)	%RH
Electrical characteristics (Excitation voltage Vcc=5.0V constant ,ambient temperature Ta=25℃)		
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	4.5	V
Offset voltage *	0.2±0.1125 (at 15 kPa·abs)	V
Output voltage at full scale *	4.7±0.1125 (at 115kPa·abs)	V
Accuracy *	±2.5	%FS/0～85℃

* Excluding input voltage error.

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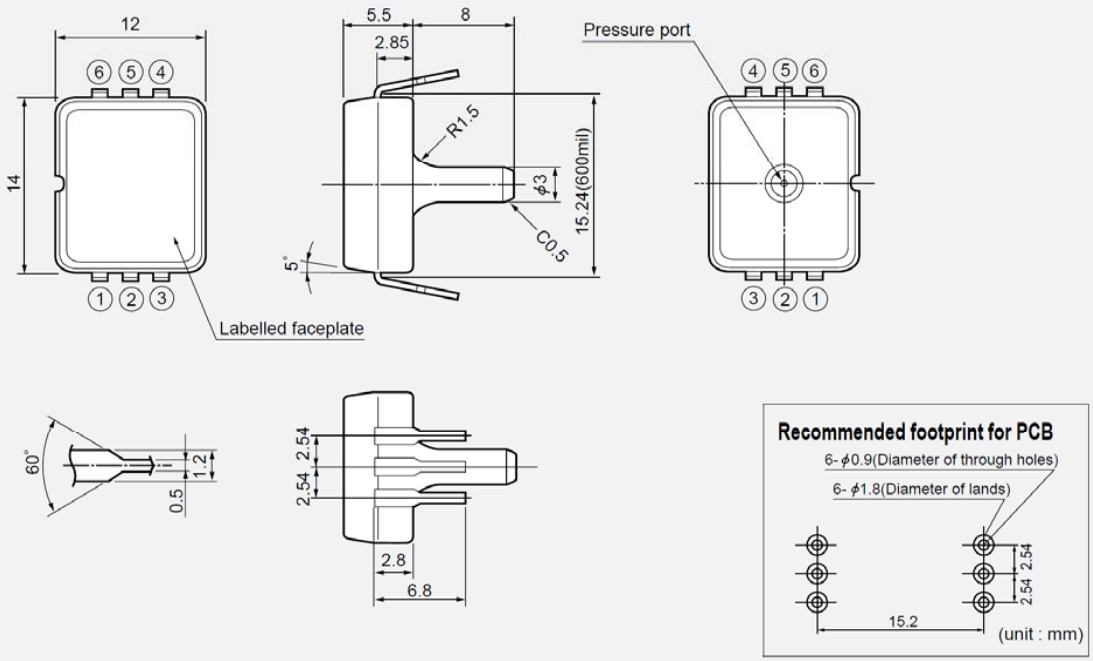
■Outline dimensions■

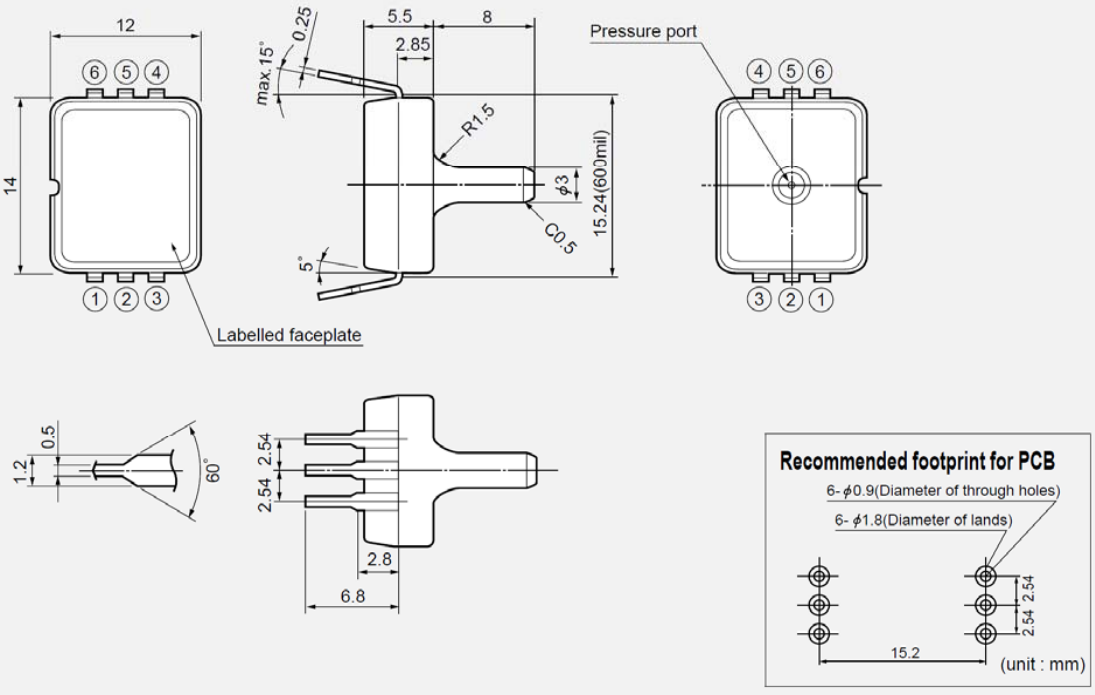
Unit : mm

XFPM (Absolute pressure)



Unit : mm

XFPM-R (Absolute pressure)



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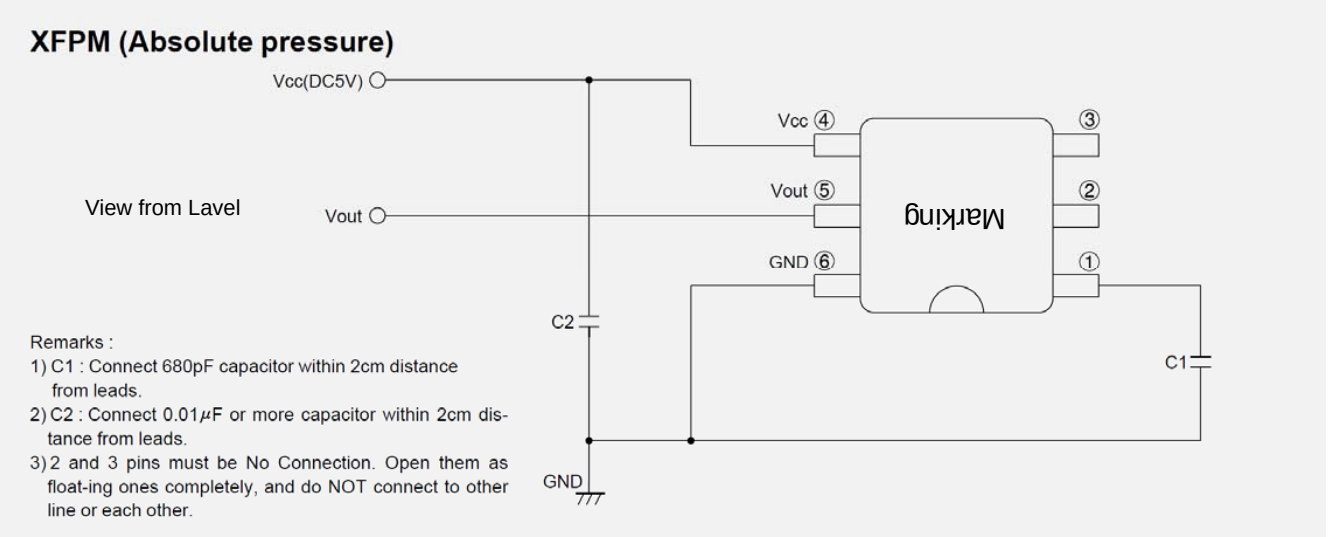
■Connection diagram■



■Transfer Function■

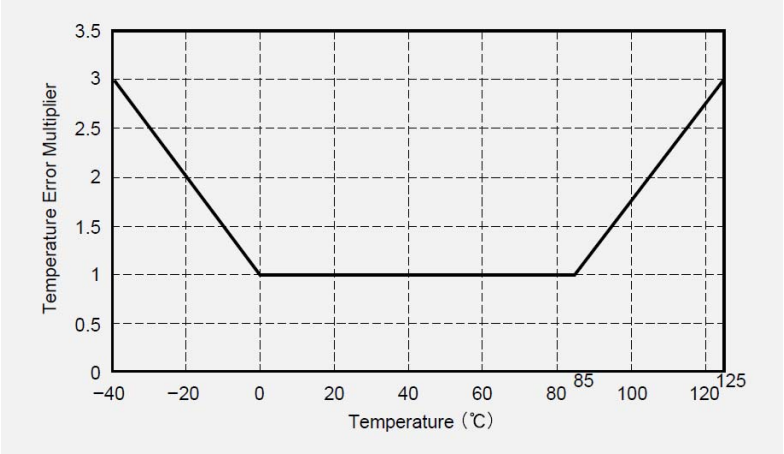
Vout = Vs × (P × α + β) ± (Pressure Error × Temperature Error Multiplier × α × Vs)

Vs=Vcc=5.0V

P=Input pressure(kPa･abs)

α	β	Pressure Error (kPa)
0.009	-0.095	2.5

Temperature Error Multiplier



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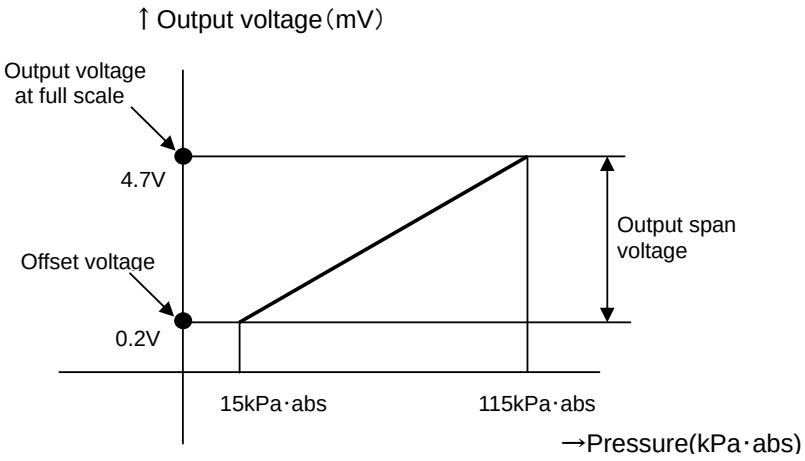
■Output characteristics■



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

If you have any questions regarding technical issues or specifications, please contact us.
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