

エンジン制御用圧力センサ

Pressure Sensor for Engine Management System

ピエゾ抵抗、調整回路、EMC保護を一体化
All in one chip solution

■特長 Features

- 1チップタイプ～センサ部、EPROM調整回路、ESD保護素子、EMIフィルタ及び自己診断回路を内蔵
- 独自のダイヤフラム形成技術により高い耐圧性を確保
- “All in one chip solution”
(Sensor Element, EPROM trimming circuit, EMC Protect Device, EMI Filter and Diagnosis circuit)
- Diaphragm have high burst pressure by isotropic(plasma) etching technology.

■用途 Applications

- インテークマニホールド内の負圧検知
- 過給圧検知
- Measure intake manifold absolute pressure
- Measure boost absolute pressure



■仕様 Specifications

Item	Symbol	Unit	Min	Typ	Max	
Over Voltage	Vov	V	—	—	16.50	
Proof Pressure	Ppr	%F.S.	—	—	200	
Burst Pressure	Pbu	%F.S.	—	—	300	
Operating Voltage	Vop	V	4.75	5.00	5.25	
Operating Pressure (Absolute)	Pop	kPa	50	300	400	
Operating Temperature	Top	degC	-40	—	135	
Output Voltage	Vo	V	0.50	—	4.50	
Pressure Error (10~85degC)	Ep	%F.S.	—	—	1.00	
Temperature Error (-40/135degC)	Et	%F.S.	—	—	2.00	
Interface	A : Pull up resistor	Rpu	kohm	300	—	—
	B : Pull down resistor	Rpd	kohm	100	—	—
Diagnostics	A	VCC open	Vdl	V	0.20	—
		VOUT open	Vdu	V	—	4.80
		GND open	Vdu	V	—	4.80
	B	VCC open	Vdl	V	0.20	—
		VOUT open	Vdl	V	0.20	—
		GND open	Vdu	V	—	4.80

