

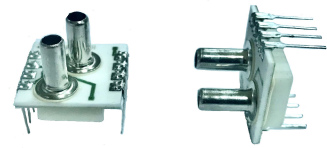
SV-SERIES

SV-Series

Dual In Line Package

mV Output

Temperature Compensated



DESCRIPTION

APPLICATIONS

SV-Series is a temperature compensated, mV output, ceramic mounted pressure sensor packaged in a rugged Dual In Line package. SV-Series uses a silicon MEMS pressure sensor bonded to a ceramic substrate containing thick film resistors that are uniquely laser trimmed for each sensor.

Incorporating a flexible design, the SV-Series is available with no, short or long tubes and can be mounted pin up or pins down to allow OEM to optimize their board design. The SV-Series is powered using constant voltage and when configured as in the application note, the integrated gain set resistor will ensure sensor field interchangeability.

The SV-Series superior die performance, coupled with rugged ceramic substrate ensures long term stability with superior temperature performance over wide operating range.

- Pneumatic controls
- Automotive diagnostics
- Medical equipment/instrumentation
- Environmental controls
- Barometric pressure measurement
- Factory Automation
- Process Controls

FEATURES

- 1% Pressure Non Linearity
- Constant Voltage
- Wide selection of port
- Absolute, Differential or Gage pressures
- Temperature Compensated
- 100% Field Interchangeability

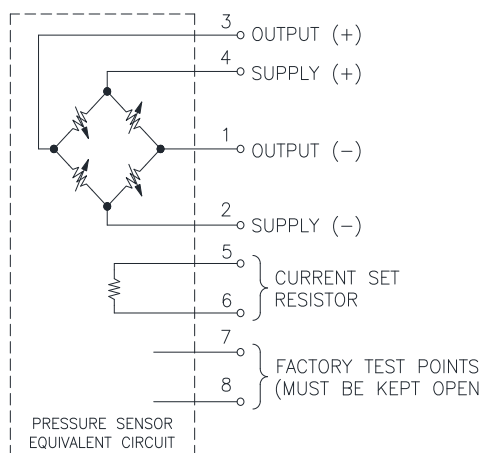
SV-SERIES

Specifications	Min	Typical	Max	Unit	Note
Supply Voltage	Application Schematic			V	
Span (5~300PSI)	45	50	55	mV	1
Span (1~2PSI)	35	40	45	mV	1
Zero Pressure Output	-5	-	+5	mV	
Pressure Non Linearity	-	±1	-	%FS	
Hysteresis & Repeatability	-	±0.2	-	%FS	
Input/Output Resistance	2.5	5	6.5	KΩ	
Temperature Error – Zero	-0.5	±0.2	+0.5	%FS	2
Temperature Error – Span	-0.5	±0.3	+0.5	%FS	2
Resistance Temperature Coefficient	-0.25	±0.3	+0.35	%/°C	
Long Term Stability	-	±0.5	-	%FS	
Response Time	-	100	-	ms	
Weight	-	≈3	-	g	
Compensation Temperature	-20		+70	°C	
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+120	°C	
Overage Pressure	3X				
Wetted Materials	Dry, non-corrosive gas				

Reference Conditions: Vsupply: Constant Voltage, Ta=25°C.

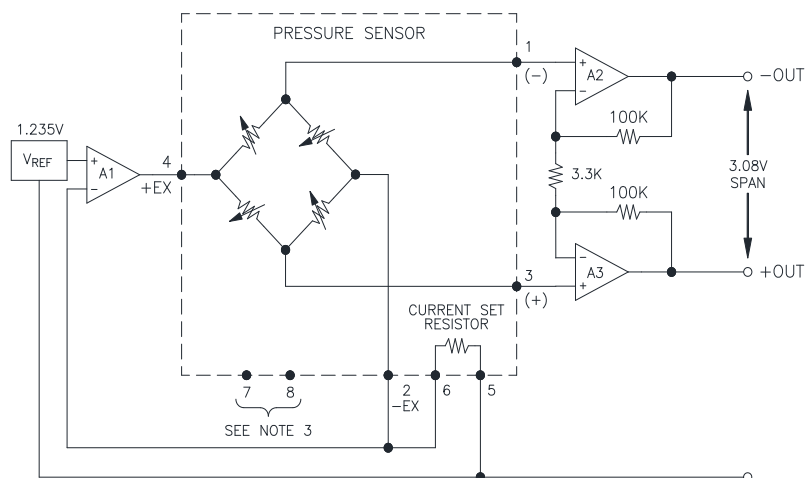
- 1、 All specification at reference conditions unless otherwise noted.
- 2、 Maximum temperature error between -20°C and +70°C with respect to 25°C

EQUIVALENT CIRCUIT



APPLICATION CIRCUIT

CONSTANT VOLTAGE

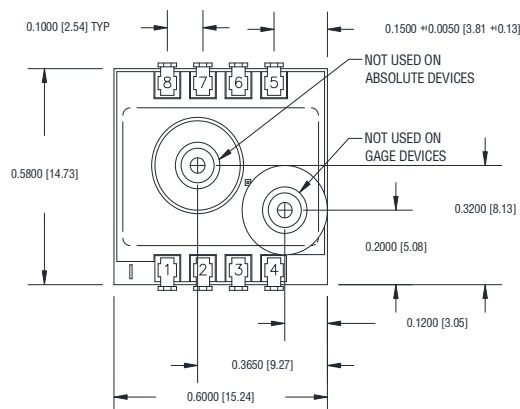


APPLICATION SCHEMATIC

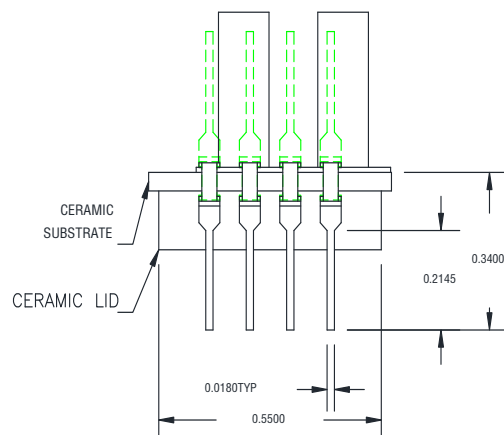
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MECHANICAL DIMENSIONS in [mm]

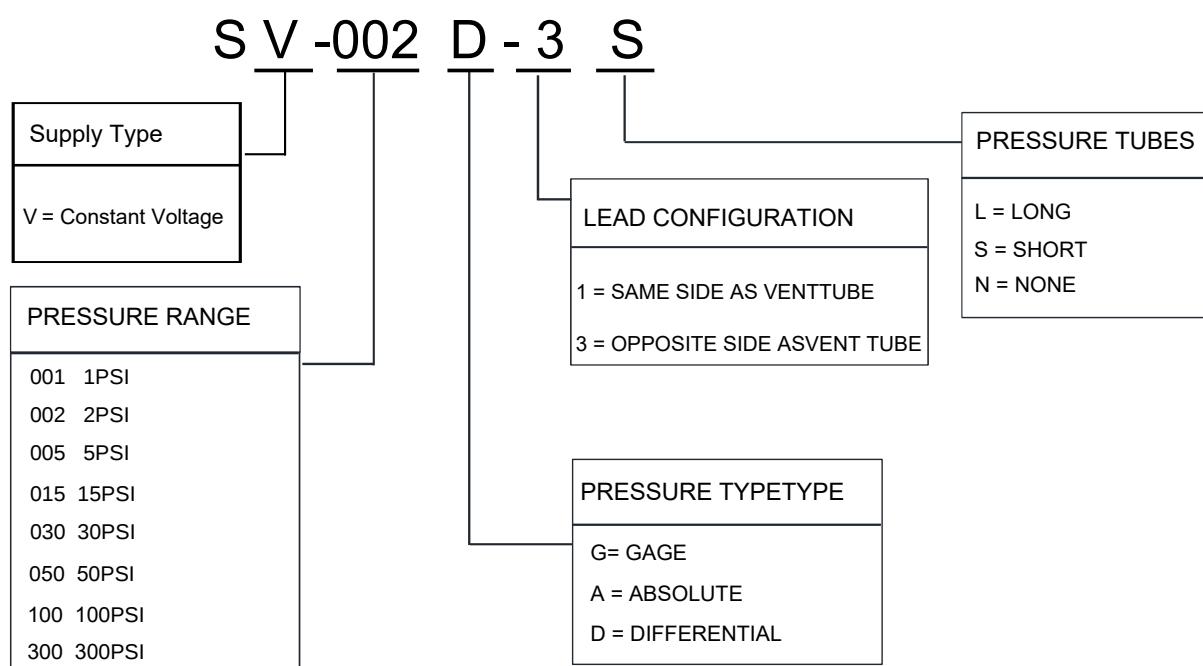
METAL TUBE/CERAMIC SUBSTRATE AND LID



PAD NO	FUNCTION
1	–OUT
2	–EX
3	+OUT
4	+EX
5,6	GAIN
7,8	TEST



PART NUMBERING FOR ORDERS



Part Number Example: SV-015A Product SV-Series 15PSI ABSOLUTE