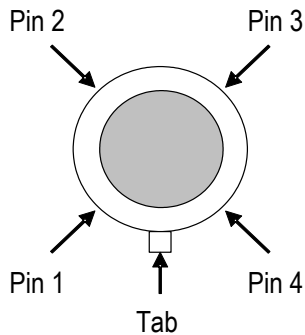

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1. Pin Assignments

Figure 2. Pin Assignments for SGAS711 – Top View



2. Pin Descriptions

Table 1. Pin Descriptions

Note: See Figure 4 for the connections described below.

Pin Number	Name	Description
1	Heater +	Positive input for V_H heater voltage supply
2	Sensor +	High-side of resistive sensor element; positive input for sensing voltage V_C
3	Heater –	Negative input for V_H heater voltage supply (ground)
4	Sensor –	Low-side of resistive sensor element; connects to middle of resistor divider circuit to produce sensing voltage output (V_{OUT})

3. Sensor Specifications

Note: All measurements were made in dry gas at room temperature. Specifications are subject to change.

Table 2. Electrical Specifications

Symbol	Parameter	Conditions	Minimum	Typical	Maximum	Units
P_H	Heater Power Consumption	$V_H = 7.0V$		900		mW
V_H	Recommended Heater Voltage	$T_{SENSOR} = 300^{\circ}C$		7.0		VDC
R_H	Heater Resistance	At room temperature	28	30	32	Ω
V_C	Recommended Sensing Voltage		2.5		5.0	VDC
R_{1000}	Resistance at 1000ppm Methane (CH_4)		10		1000	k Ω
R_{1000}/R_{2500}	Resolution: Resistance in 1000ppm/ Resistance in 2500ppm		1.2			