

P883

Medium and High Pressure MEMS Pressure Sensor Die

Description

The NovaSensor P883 die products utilize four piezoresistors combined in Wheatstone bridge circuit. When excited by either constant voltage or constant current, the P883 die produces a differential millivolt output signal directly proportional to the applied pressure. Available as gage (differential) or absolute, the P883 sensor die also features high sensitivity, excellent overload capability and small temperature hysteresis over a wide temperature range. The product is 100% visually inspected and electrically probed. Samples from each wafer are tested for resistance, sensitivity, linearity, offset, temperature coefficients and hysteresis. The products are available in standard configuration with 63 mil (1.60 mm) and 93 mil (2.36 mm) thick glass support and low-profile configuration with 22 mil (0.56 mm) thick glass support and no glass support.

Applications

- Process Control
- Automotive Systems
- Pneumatic Controls
- Hydraulic Systems
- Level Sensing

Features

- High Reliability MEMS sensor
- · Available as absolute or gauge (differential)
- Available with different glass thickness or no glass at all (consult NovaSensor for more information)
- Designed to be temperature compensated using constant current or voltage
- NovaSensor's proprietary SenStable[®] process produces excellent long-term stability
- Pressure ranges available from 5 to 15,000 psi
- Media Compatibility clean dry air, noncorrosive gases and liquids, other fluids compatible with silicon and borosilicate glass

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P883 Specifications - Standard Configuration

Parameter									
General		Value			Units	Notes			
Processie	Differentia)ifferential and absolute		5, 7, 15, 30, 70, 150, 300, 500, 800		psig / psia			
Pressure Absolute		only	1000, 150	0, 3000, 5000, 10	000, 15000	psia	Products may be qualified to		
			6X pressu	re 5-150 psi			a higher maximum pressure		
Maximum P	ressure		3X pressu	re 300-3000	psi		after additional testing		
			2X pressu	re 5000-150	00 psi				
Environmental									
Electrostatic damage (ESD) Class 1							MIL-STD 883 method 3015		
Temperature	e Range						·		
Operating			-40 to 140)		°C	-40°F to 284°F, note 1		
Storage			-55 to 150)		°C	-67°F to 302°F		
Mechanical									
			1.99 mm x	1.99 mm. Option	ns for glass t	hickness: 0.5	6 mm, 1.60 mm, 2.36 mm		
Die Dimensi	ons (L x W)	With Glass	Die thickne	ess: 0.96 mm, 2.0) mm, 2.75 m	ım			
		Without Glass	2.17 mm x 2.17 mm x 0.40 mm						
Maight			With 0.56	mm thick Glass -	0.007 grams	s, with 1.60 m	m thick Glass - 0.016 grams		
vveignt			With 2.36	mm thick Glass -	0.022 grams	s, without Gla	ss - 0.002 grams		
Metalization			Pure aluminum						
Media Com	patibility		Clean, dry air, and noncorrosive gases						
Electrical F	Performanc	e @ 25°C (72°F), 1.0 m	A						
Parameter		Bange	Min	Typical	Max	Units	Notes		
		i lange			in care		i i i i i i i i i i i i i i i i i i i		
Recommen	ded	Current		1.0	1.6	mA	-		
Recommen excitation	ded	Current Voltage	5.0	1.0 10	1.6 V	mA			
Recommen excitation Input and C	ded Dutput Impe	Current Voltage dance	5.0	1.0 10 5300	1.6 V 6000	mA Ohm	- - 2		
Recommen excitation Input and C	ded Dutput Impe	Current Voltage dance 5 to 7 psi	5.0 4000 -10	1.0 10 5300 within ±5	1.6 V 6000 +10	mA Ohm	- - 2		
Recommen excitation Input and C Zero Offset	ded Dutput Impe	Current Voltage dance 5 to 7 psi 15 to 70 psi	5.0 4000 -10 -7.5	1.0 10 5300 within ±5 within ±2.5	1.6 V 6000 +10 +7.5	mA Ohm mV/V	- - 2 2, 3		
Recommen excitation Input and C Zero Offset	ded Dutput Impe	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi	5.0 4000 -10 -7.5 -5.0	1.0 10 5300 within ±5 within ±2.5 -0.3	1.6 V 6000 +10 +7.5 +5.0	mA Ohm mV/V	- - 2 2, 3		
Recommen excitation Input and C Zero Offset	ded Dutput Impe	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi	5.0 4000 -10 -7.5 -5.0 100	1.0 10 5300 within ±5 within ±2.5 -0.3 130	1.6 V 6000 +10 +7.5 +5.0 166	mA Ohm mV/V	- - 2 2, 3		
Recommen excitation Input and C Zero Offset Full Scale C	ded Dutput Impe Dutput	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi	5.0 4000 -10 -7.5 -5.0 100 120	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140	1.6 V 6000 +10 +7.5 +5.0 166 180	mA Ohm mV/V mV	- - 2 2, 3 2, 4		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi	5.0 4000 -10 -7.5 -5.0 100 120 215	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250	1.6 V 6000 +10 +7.5 +5.0 166 180 275	mA Ohm mV/V mV	- - 2 2, 3 2, 4		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30	mA Ohm mV/V mV	- - 2 2, 3 2, 4 2, 5, 10		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20	mA Ohm mV/V mV	- - 2 2, 3 2, 4 2, 5, 10 2, 5, 6		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15	mA Ohm mV/V mV	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 6 2, 5, 10		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +0.25	mA Ohm mV/V mV	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 6 2, 5, 10 2, 5, 7		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi 15000 psi bility	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +0.25 +0.1	mA Ohm mV/V mV %FSO	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 6 2, 5, 10 2, 5, 7 2		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co	ded Dutput Impe Dutput an)	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 15000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi 15000 psi bility 5 to 70 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±5	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +0.25 +0.1 +15	mA Ohm mV/V mV %FSO %FSO	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 10 2, 5, 7 2 2 8, 0, 10		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co of Zero (TC	ded Dutput Impe Dutput an) ure Repeata refficient O)	Current Voltage dance 5 to 7 psi 15 to 70 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi bility 5 to 70 psi 150 to 15000 psi	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15 -10	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±5 within ±2.5	$\begin{array}{c} 1.6 \\ V \\ 6000 \\ +10 \\ +7.5 \\ +5.0 \\ 166 \\ 180 \\ 275 \\ +0.30 \\ +0.20 \\ +0.15 \\ +0.25 \\ +0.1 \\ +15 \\ +10 \end{array}$	mA Ohm mV/V mV %FSO %FSO	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 6 2, 5, 10 2, 5, 7 2 8, 9, 10		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co of Zero (TC)	ded Dutput Impe Dutput an) ure Repeata pefficient O)	Current Voltage dance 5 to 7 psi 15 to 70 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi bility 5 to 70 psi 150 to 15000 psi Resistance (TCR)	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15 -10 0.32	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±5 within ±2.5 0.380.40	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +15 +10 0.48	mA Ohm mV/V mV %FSO %FSO µV/V/°C	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 10 2, 5, 7 2 8, 9, 10 8, 9		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co of Zero (TC Thermal Co	ded Dutput Impe Dutput an) ure Repeata refficient O) refficient of	Current Voltage dance 5 to 7 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi bility 5 to 70 psi 150 to 15000 psi Resistance (TCR) Sensitivity (TCS)	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15 -10 0.32 -0.23	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±5 within ±2.5 0.380.40 -0.210.19	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +10.25 +0.1 +15 +10 0.48 -0.15	mA Ohm mV/V mV %FSO %FSO μV/V/°C %/°C %/°C	- - 2 2, 3 2, 3 2, 4 2, 4 2, 4 2, 5, 10 2, 5, 10 2, 5, 7 2 8, 9, 10 8, 9 8, 9 8, 9		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co of Zero (TC Thermal Co Zero Therm	ded Dutput Impe Dutput an) Ure Repeata refficient O) refficient of refficient of refficient of refficient of	Current Voltage dance 5 to 7 psi 15 to 70 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi bility 5 to 70 psi 150 to 15000 psi Resistance (TCR) Sensitivity (TCS)	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15 -10 0.32 -0.23 -0.2	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±5 within ±2.5 0.380.40 -0.210.19 within ±0.02	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +10.25 +0.1 +15 +10 0.48 -0.15 +0.2	mA Ohm mV/V mV/V mV %FSO %FSO μV/V/°C %/°C %/°C %FSO	- - 2 2, 3 2, 3 2, 4 2, 4 2, 5, 10 2, 5, 10 2, 5, 6 2, 5, 10 2, 5, 7 2 8, 9, 10 8, 9 8, 9 8, 9 8, 9, 10		
Recommen excitation Input and C Zero Offset Full Scale C (FSO or Spa Linearity Zero Pressu Thermal Co of Zero (TC Thermal Co Zero Therm FSO Therm	ded Dutput Impe Dutput an) ure Repeata refficient O) refficient of refficient of refficient of al Hysteres al Hysteres	Current Voltage dance 5 to 7 psi 15 to 70 psi 15 to 70 psi 150 to 15000 psi 5 to 800 psi 1000 to 5000 psi 15000 psi 5 psi 7 psi 15 to 5000 psi 15000 psi bility 5 to 70 psi 150 to 15000 psi Resistance (TCR) Sensitivity (TCS) is	5.0 4000 -10 -7.5 -5.0 100 120 215 -0.30 -0.20 -0.15 -0.25 -0.1 -15 -10 0.32 -0.23 -0.23 -0.2 -0.2	1.0 10 5300 within ±5 within ±2.5 -0.3 130 140 250 -0.14 -0.10 within ±0.1 -0.07 ±0.01 within ±0.1 0.07 ±0.01 within ±5 within ±5 within ±2.5 0.380.40 -0.210.19 within ±0.03	1.6 V 6000 +10 +7.5 +5.0 166 180 275 +0.30 +0.20 +0.15 +10 0.48 -0.15 +0.2 +0.2	mA Ohm mV/V mV/V mV %FSO %FSO μV/V/°C %/°C %/°C %FSO %FSO %FSO	- - 2 2, 3 2, 3 2, 4 2, 4 2, 4 2, 5, 10 2, 5, 6 2, 5, 10 2, 5, 7 2 8, 9, 10 8, 9 8, 9, 10 8, 9, 10 8, 9, 10 8, 9, 10		

P883 Specifications - Low-Profile Configuration

Parameter									
General		Value			Units	Notes			
Pressure	Differentia	al and at	osolute	5, 15, 30,	70, 150, 300		psig / psia		
Maximum Pressure		6X pressure 5-150 psi 3X pressure 300 psi				Products may be qualified to a higher maximum pressure after additional testing			
Environme	ntal								
Electrostatio	c damage ((ESD) Cla	ass 1					MIL-STD 883 method 3015	
Tempera-	Operating	g		-40 to 140			°C	–40°F to 284°F, note 1	
ture Range	Storage			–55 to 150	C		°C	–67°F to 302°F	
Mechanica	l								
Die Dimensi	ons: With	glass (L	x W x H)	1.99 mm :	x 1.99 mm x 0.96	3 mm			
	Wit	hout gla	ss (L x W x H)	2.17 mm :	x 2.17 mm x 0.40) mm			
Weight				With 0.56 mm thick Glass - 0.007 grams, without Glass - 0.002 grams					
Metallization	า			Pure alum	inum				
Media Com	patibility			Clean, dry air, and noncorrosive gases					
Electrical P	erforman	се							
Parameter		Range		Min	Typical	Max	Units	Notes	
Recommend	ded	Current		-	1.0	1.6	mA		
excitation		Volt	age	-	5.0	10	V		
Input and O	utput Impe	edance		4000	48005300	6000	Ohm	2	
		5 psi		-10	within ±5	+10	mV/V	2, 3	
Zero Offset		15 to 70 psi		-7.5	within ±2.5	+7.5			
		150 to 300 psi		-5.0	-0.3	+5.0			
Full Scale O	output	5 psi		100	115	166	mV	2 4	
(FSO or Span)		15 to 300 psi		100	130	166		_, .	
Linearity		5 psi		-0.30	-0.120.20	+0.30	%FSO	2, 5, 10	
Linearity		15 to 300 psi		-0.15	within ±0.1	+0.15		2, 5, 10	
Zero Pressure Repeatability			-0.1	±0.01	+0.1	%FSO	2		
Thermal Coefficient of Zero (TCO)			-15	within ±5	+15	µV/V/°C	8, 9, 10		
Thermal Coefficient of Resistance (TCR)			0.32	0.40	0.48	%/°C	8, 9		
Thermal Coefficient of Sensitivity (TCS)			-0.23	-0.19	-0.15	%/°C	8, 9		
		With gla		-0.2	within ±0.02	+0.2	0/ 500	0.0.40	
∠ero inerma	ai Hysteres	515	Without glass	-0.25	within ±0.05	+0.25	%F3U	8, 9, 10	
ESO Thorne		vie	With glass	-0.2	within ±0.03	+0.2	04590	8 0 10	
Vitho		Without glass	-0.25	within ±0.05	+0.25	701'30	0, 9, 10		

- The die passed qualification testing in -40°C...150°C temperature range. Additional testing in this temperature range may be required for some applications. 1.
- 2. Tested using 1.0 mA excitation at 25°C.
- 0 kPaA for absolute sensors, 0 kPaG for differential or 3. gage sensors.
- Part for 5000 psi can be used for 7500 psi and 10,000 psi. Part for 15,000 can be used for 10,000 psi. 4. 5.
- Best fit straight line.
- Part for 7 psi can be used for 5 psi for pressure non-linearity within ± 0.20 . 6. 7.
- Typical pressure non-linearity is provided based on testing at 10,000 psi. Parameter is evaluated between 86°F and 176°F (30°C 8.
- and 80°C) by testing samples from each wafer, typical range.
- Between -40°F and 284°F (-40°C and 140°C) with respect to 25 °C, typical range.
- Die mounting may have a large impact of sensor hys-teresis, linearity, and TCO when low profile die is used.



P883 Schematic and wire bonding diagram



P883-CB (closed bridge) Schematic and wire bonding diagram

Shipping and Handling

The standard products are available on tape with metal frame and are shipped in protective plastic containers. Electrical rejects and visual rejects are inked. Each wafer will have the following information: Lot #, Wafer #, Part #, and the number of good (yielded) die.

Warranty

NovaSensor warrants its products against defects in material and workmanship for 12 months from date of shipment. Products not subject to misuse will be repaired or replaced. THE FOREGOING IS IN LIEU OF ANY OTHER EXPRESSED OR IMPLIED WARRANTIES. NovaSensor reserves the right to make changes without further notice to any products herein. NovaSensor makes no warranty, representation or guarantee regarding the suitability of its products for any particular application, nor does NovaSensor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims and all liability, including without limitation consequential or incidental damages.

Ordering Information

Standard Configuration

63 mil (1.60 mm) Glass – Standard					
Part	Gage /	Pressure range			
No.	Abs.	Psi	Bar		
71322	G	5	0.34		
71837	G	7	0.48		
71323	G	15	1.03		
71324	G	30	2.06		
71325	G	70	4.82		
71326	G	150	10.3		
71327	G	300	20.6		
71405	G	500	34.5		
71744	G	800	55.2		
71346	А	5	0.34		
71838	А	7	0.48		
71328	А	15	1.03		
71329	А	30	2.06		
71330	А	70	4.82		
71331	А	150	10.3		
71332	А	300	20.6		
71776	А	500	34.5		
71821	А	800	55.2		
71588	А	1000	68.9		
71589	А	1500	103		
71590	А	3000	206		
71501	۸	5000	345		
/ 1591	A	10000	689		
71621	А	15000	1034		

93 mil (2.36 mm) Glass – Optional					
Part	Gage /	Pressure Range			
No.	Abs.	Psi	Bar		
71333	G	5	0.34		
71334	G	15	1.03		
71335	G	30	2.06		
71336	G	70	4.82		
71337	G	150	10.3		
71338	G	300	20.6		
71347	А	5	0.34		
71339	А	15	1.03		
71340	А	30	2.06		
71341	А	70	4.82		
71342	А	150	10.3		
71343	А	300	20.6		

Low Profile Configuration

22 mil (0.56 mm) Glass – Low profile						
Part	Gage /	Pressure Range				
No.	Abs.	Psi	Bar			
51632	G	5	0.34			
51634	G	15	1.03			
51636	G	30	2.06			
51638	G	70	4.82			
51640	G	150	10.3			
51642	G	300	20.6			
51839	А	5	0.34			
51633	А	15	1.03			
51635	А	30	2.06			
51637	А	70	4.82			
51639	А	150	10.3			
51641	А	300	20.6			
١	No glass – Low Profile					
Part	Gage /	Pressu	ire Range			
No.	Abs.	Psi	Bar			
51643	G	5	0.34			
51644	G	15	1.03			
51645	G	30	2.06			
51646	G	70	4.82			
51647	G	150	10.3			
51648	G	300	20.6			
No G	lass with	Au Meta	allization			
71625	G	5	0.34			
71010	6	15	1 02			

The code number to be ordered may be specified as follows:

Code 7XXXX	Glass Type Standard / optional glass No glass in case of Au metalization			
5XXXX	Low profile / no glass			
	Code Not specified	Circuit Configuration Wheatstone bridge open at Ground		
	CB	Closed Wheatstone bridge		
P883	·			

Note:

All products are supplied on 6" wafers. Minimum release quantity: 2500 die.

Amphenol Sensors

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