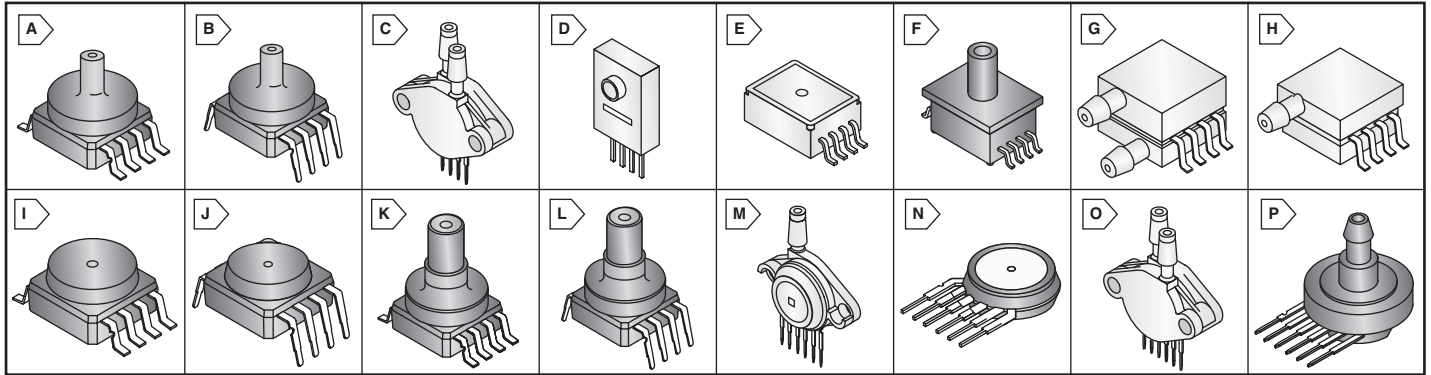


# FREESCALE Pressure Sensors



Products may be RoHS compliant. Check mouser.com for RoHS status.



## PRESSURE SENSORS

Freescale pressure sensors combine advanced piezoresistive sensor architecture with integrated circuit technology to offer a wide range of pressure sensing devices for automotive, medical, consumer and industrial applications.

### Features:

- Broad portfolio of packaging and porting options for design flexibility
- Cost-effective
- Wide operating temperature range of -40°C to 125°C
- Fully signal conditioned, compensated and calibrated
- Interface seamlessly with Freescale processors
- Ratiometric to supply voltage

For quantities of 200 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Fig.	Package	Pressure Rating Max (psi)	Pressure Rating H2O Max (in)	Pressure Measurement Type	Price Each		
							1	25	100
<b>Uncompensated</b>									
841-MPXV10GC6U	MPXV10GC6U	A	Sm Outlin SMT w/Axial Port	1.45	40	Gauge	6.04	4.36	4.34
841-MPXV10GC7U	MPXV10GC7U	B	Sm Outlin DIP w/Axial Port	1.45	40	Gauge	5.76	5.27	4.82
841-MPXV53GC7U	MPXV53GC7U	B	Sm Outlin DIP w/Axial Port	7	200	Gauge	5.77	4.83	4.55
<b>Compensated</b>									
841-MPX2053DP	MPX2053DP	C	4 Pin Unibody Dual Port	7	201	Differential	7.83	7.17	6.56
841-MPX2300DT1	MPX2300DT1	D	CHIP PAK	5.8	161	Gauge	5.13	4.21	3.94
841-MPXM2010D	MPXM2010D	E	Sensor M-Pak 05	1.45	40	Differential	5.02	4.60	4.21
841-MPXM2010GS	MPXM2010GS	F	Sensor M-Pak 05 Ported	1.45	40	Gauge	5.02	4.60	4.21
841-MPXM2051GS	MPXM2051GS	F	Sensor M-Pak 05 Ported	7	201	Gauge	12.01	10.04	9.49
841-MPXM2053D	MPXM2053D	E	Sensor M-Pak 05	7	201	Differential	5.02	4.60	4.21
841-MPXM2053GS	MPXM2053GS	F	Sensor M-Pak 05 Ported	7	201	Gauge	5.02	4.60	4.21
841-MPXM2102A	MPXM2102A	E	Sensor M-Pak 05	14.5	400	Absolute	5.02	4.60	4.21
841-MPXM2102AS	MPXM2102AS	F	Sensor M-Pak 05 Ported	14.5	400	Absolute	5.02	4.60	4.21
841-MPXM2102AST1	MPXM2102AST1	F	Sensor M-Pak 05 Ported	14.5	400	Absolute	5.12	4.60	4.21
841-MPXM2102GS	MPXM2102GS	F	Sensor M-Pak 05 Ported	14.5	400	Gauge	5.02	4.60	4.21
841-MPXM2202A	MPXM2202A	E	Sensor M-Pak 05	29	800	Absolute	5.02	4.60	4.21
841-MPXM2202AS	MPXM2202AS	F	Sensor M-Pak 05 Ported	29	800	Absolute	5.02	4.60	4.21
841-MPXM2202D	MPXM2202D	E	Sensor M-Pak 05	29	800	Differential	5.02	4.60	4.21
841-MPXM2202GS	MPXM2202GS	F	Sensor M-Pak 05 Ported	29	800	Gauge	5.02	4.60	4.21
841-MPXM2202GST1	MPXM2202GST1	F	Sensor M-Pak 05 Ported	29	800	Gauge	5.12	4.60	4.33
841-MPXV2010DP	MPXV2010DP	G	Sensor 8 Pin Dual Port	1.45	40	Differential	7.13	6.40	5.26
841-MPXV2010GP	MPXV2010GP	H	Sensor 8 Pin GP	1.45	40	Gauge	7.01	6.40	5.86
841-MPXV2053DP	MPXV2053DP	G	Sensor 8 Pin Dual Port	7	201	Differential	7.13	6.40	5.26
841-MPXV2053GP	MPXV2053GP	H	Sensor 8 Pin GP	7	201	Gauge	7.01	6.40	5.86
841-MPXV2102GP	MPXV2102GP	H	Sensor 8 Pin GP	14.5	400	Gauge	7.01	6.40	5.86
841-MPXV2202DP	MPXV2202DP	G	Sensor 8 Pin Dual Port	29	800	Differential	7.13	6.40	5.26
841-MPXV2202GP	MPXV2202GP	H	Sensor 8 Pin GP	29	800	Gauge	7.01	6.40	5.86

## INTEGRATED PRESSURE SENSORS

To make the designer's job even easier, Freescale integrated devices carry sensor technology one step further. In addition to the on-chip temperature compensation and calibration offered currently on the 2000 series, amplifier signal conditioning has been integrated on-chip in the 4000, 5000 and 6000 series to allow interface directly to any microcomputer with an on-board A/D converter. The signal conditioning is accomplished by means of a four-stage amplification network, incorporating linear bipolar processing, thin film metallization techniques, and interactive laser trimming to provide the state-of-the-art in sensor technology.

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- Cost-effective
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- Interface seamlessly with Freescale processors
- Ratiometric to supply voltage

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841-MPVZ4006G6U	MPVZ4006G6U	I	Small Outline SMT	0.87	24	Gauge	9.32	8.53	7.01
841-MPVZ4006G7U	MPVZ4006G7U	J	Small Outline DIP	0.87	24	Gauge	9.51	8.53	7.80
841-MPVZ4006GW6U	MPVZ4006GW6U	K	SOP 8 Sifel w/M-Port	0.87	24	Gauge	9.51	8.53	7.80
841-MPVZ4006GW7U	MPVZ4006GW7U	L	SOP 8 w/M-Port	0.87	24	Gauge	9.51	8.53	7.80
841-MPVZ5004G6U	MPVZ5004G6U	I	Small Outline SMT	0.57	16	Gauge	9.32	8.53	7.01
841-MPVZ5004G7U	MPVZ5004G7U	J	Small Outline DIP	0.57	16	Gauge	9.51	8.53	7.80
841-MPVZ5004GW6U	MPVZ5004GW6U	K	SOP 8 SIFEL W/M-PORT	0.57	16	Gauge	9.51	8.53	7.80
841-MPVZ5004GW7U	MPVZ5004GW7U	L	SOP 8 w/M-Port	0.57	16	Gauge	9.51	8.53	7.80
841-MPVZ5010G6U	MPVZ5010G6U	I	Small Outline SMT	1.45	40	Gauge	9.51	8.53	7.81
841-MPVZ5010G7U	MPVZ5010G7U	J	Small Outline DIP	1.45	40	Gauge	9.51	8.53	7.81
841-MPVZ5010GW6U	MPVZ5010GW6U	K	SOP 8 SIFEL W/M-PORT	1.45	40	Gauge	9.51	8.53	7.81
841-MPVZ5010GW7U	MPVZ5010GW7U	L	SOP 8 w/M-Port	1.45	40	Gauge	9.32	8.53	7.81
841-MPX4100AP1	MPX4100AP1	M	6 Pin Unibody Gauge Port	15.2	422	Absolute	11.97	10.74	7.81
841-MPX4115A	MPX4115A	N	6 Pin Unibody	16.7	-	Absolute	10.33	9.48	8.64
841-MPX4115AP	MPX4115AP	M	6 Pin Unibody Gauge Port	16.7	462	Absolute	10.33	9.48	8.64
841-MPX4250A	MPX4250A	N	6 Pin Unibody	36	1000	Absolute	10.33	9.48	8.64
841-MPX4250AP	MPX4250AP	M	6 Pin Unibody Gauge Port	36	1000	Absolute	10.33	9.48	8.64
841-MPX4250D	MPX4250D	N	6 Pin Unibody	36	1000	Differential	10.33	9.48	8.64
841-MPX4250DP	MPX4250DP	O	6 Pin Unibody Dual Port	36	1000	Differential	10.33	9.48	8.64
841-MPX4250GP	MPX4250GP	M	6 Pin Unibody Gauge Port	36	1000	Gauge	11.72	10.74	9.81
841-MPX5010DP	MPX5010DP	O	6 Pin Unibody Dual Port	1.45	40	Differential	10.34	9.48	8.65
841-MPX5010GP	MPX5010GP	M	6 Pin Unibody Gauge Port	1.45	40	Gauge	10.34	9.48	8.65
841-MPX5010GS	MPX5010GS	P	6 Pin Unibody Stoppipe Port	1.45	40	Gauge	11.96	10.74	9.82
841-MPX5050D	MPX5050D	N	6 Pin Unibody	7.25	201	Differential	10.34	9.48	8.65
841-MPX5050DP	MPX5050DP	O	6 Pin Unibody Dual Port	7.25	201	Differential	10.34	9.48	8.65
841-MPX5050GP	MPX5050GP	M	6 Pin Unibody Gauge Port	7.25	201	Gauge	10.34	9.48	8.65
841-MPX5050GP1	MPX5050GP1	M	6 Pin Unibody Gauge Port	7.25	201	Gauge	11.73	10.74	9.82
841-MPX5100A	MPX5100A	N	6 Pin Unibody	16.7	462	Absolute	10.34	9.48	8.65
841-MPX5100AP	MPX5100AP	M	6 Pin Unibody Gauge Port	16.7	462	Absolute	10.34	9.48	8.65