



MEAS | MEAS MS5837

TE Internal #: 20000979-00

Digital Pressure and Altimeter Sensor Modules, Absolute, 2000 mbar, 2 bar, Output/Span 24 bit ADC, ±0.5mbar, Supply Voltage 1.5 – 3.6 V, MEAS MS5837

[View on TE.com >](#)

Sensors > Pressure Sensors > Board Mount Pressure Sensors > Compact Water Resistant Pressure Sensor



Board Level Pressure Sensor Type: **Digital Pressure and Altimeter Sensor Modules**

Board Level Pressure Sensor Style: **Absolute**

Pressure: **2 bar**

Proof Pressure Range: **10 bar**

[All Compact Water Resistant Pressure Sensor \(2\)](#)

Features

Product Type Features

Board Level Pressure Sensor Type	Digital Pressure and Altimeter Sensor Modules
Board Level Pressure Sensor Style	Absolute

Electrical Characteristics

Board Level Pressure Sensor Supply Voltage	1.5 – 3.6 V
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Dimensions

Dimensions	3.3 x 3.3 x 2.75 mm [.13 x .13 x .108 in]
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Usage Conditions

Pressure	2 bar
Operating Temperature Range	-20 – 85 °C [-4 – 185 °F]

Operation/Application

Resolution	.016
Output Interface	I2C
Pressure	2000 mbar
Proof Pressure Range	10 bar
Output/Span	24 bit ADC
Board Level Pressure Sensor Accuracy	±0.5mbar



Packaging Features

Board Level Pressure Sensor Package

Surface Mountable

Other

Sensor Options

Shielded

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

EU RoHS Directive 2011/65/EU

Compliant

EU ELV Directive 2000/53/EC

Compliant

China RoHS 2 Directive MIIT Order No 32, 2016

No Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2023 (235)
 Candidate List Declared Against: JUNE 2022 (224)
 Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts




TE Part # 20000980-00
MS5840-02BA21 LP T&R PRESS SEN

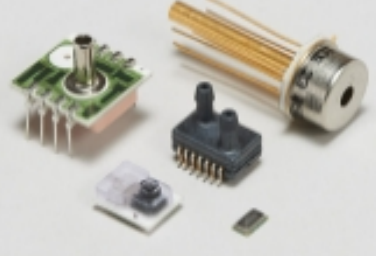


TE Part # 20008669-50
MS5839-02BA36 CL RESISTANT LS T&R SEN




TE Part # CAT-BLPS0059
Compact Water Resistant Pressure Sensor

Also in the Series | **MEAS MS5837**



Board Mount Pressure Sensors(3)



Sensor Development Boards and Evaluation Kits(2)

Customers Also Bought



TE Part #MS583730BA01-50
MS5837-30BA01 30BA T&R PRESSURE SEN



TE Part #NB-PTCO-050
Pt1000, 1.2x4.0, Class A, PTFM102A1G0



TE Part #6-1625892-7
3W SM M/OX 5% 68R



TE Part #1-770969-0
06P MINI UMNL R/A HDR ASSY SN



TE Part #1571563-9
FSM8JSMATR=TACT,SMT,T&R



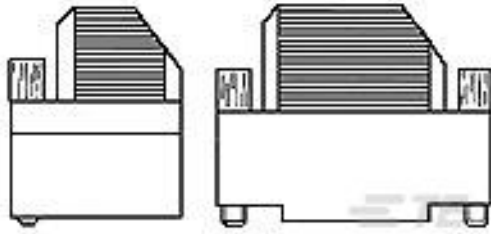
TE Part #1625960-9
HBA RE 47M 1% 100PPM




TE Part #6-2319848-8
END STACK DIP 5P G RECESS SEAL T&R



TE Part #1-100103-0
10P.A/L.STRAIN REL.



TE Part #1393738-5
V42254A6000G150=SUB D GEHAEUSE



TE Part #CH5298-000
PP000009



Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_20000979-00_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_20000979-00_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_20000979-00_1.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[MS5837-02BA](#)

English

Product Specifications

[Application Specification](#)

English