

MS583702BA01-50 ✓ ACTIVE

MEAS | MEAS MS5837

TE Internal #: MS583702BA01-50

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

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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 |
|--|-------------|

Dimensions

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|------------|---|
| Dimensions | 3.3 x 3.3 x 2.75 mm [.13 x .13 x .108 in] |
|------------|---|

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 | ± 0.5 mbar |



Packaging Features

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|-------------------------------------|-------------------|
| Board Level Pressure Sensor Package | Surface Mountable |
|-------------------------------------|-------------------|

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 | Not Yet Reviewed for halogen content |
| 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

| | |
|--|---|
|  <p>TE Part # MS583730BA01-50 MS5837-30BA01 30BA T&R PRESSURE SEN</p> |  <p>TE Part # CAT-BLPS0059 Compact Water Resistant Pressure Sensor</p> |
|--|---|

Also in the Series | **MEAS MS5837**



Board Mount Pressure Sensors(3)



Sensor Development Boards and Evaluation Kits(2)

Customers Also Bought



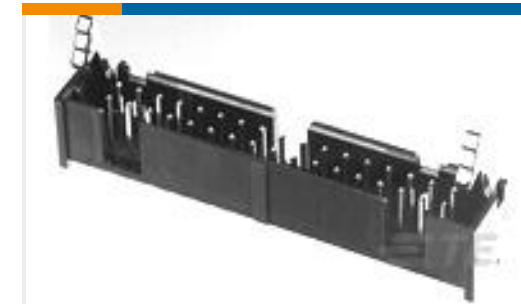
TE Part #338069-4
MICRO-MATCH SMD FTE



TE Part #4-2176231-1
3522 470R 1% 3W



TE Part #10142048-22
HTU31D I.C 31D RH/T DIGITAL R5000
4kV



TE Part #1-1761606-0
IDC LOW PRO HDR 30P VERT LG LA



TE Part #8-2176371-6
RQ 0603 35K7 0.1% 10PPM 5K RL



TE Part #154CV-001G-RT
NISO,LP,CV,GA,R-CBL W/TUBE



TE Part #MS580301BA07-00
MS5803-01BA07 1BAR FLUOROGEL
TUBE



TE Part #7-1879128-8
RN 0402 1K0 0.1% 10PPM 5K RL



TE Part #225361-E
MRDEZT M12 VERRIEG.SCHRAUBE
90GR SW16 *

Documents

CAD Files

[3D PDF](#)

[3D](#)

Customer View Model

[ENG_CVM_CVM_MS583702BA01-50_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_MS583702BA01-50_1.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_CVM_MS583702BA01-50_1.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[MS5837-02BA](#)

English

Product Specifications

[Application Specification](#)

English