

MS583730BA01-50

✓ ACTIVE

MEAS | MEAS MS5837

TE Internal #: MS583730BA01-50
Digital Pressure and Altimeter Sensor Modules, Absolute, 24 bit
ADC, ±1.5mbar Pressure Accuracy, Supply Voltage Range 1.5 - 3.6
V, MEAS MS5837
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Sensors > Pressure Sensors > Board Mount Pressure Sensors > 0-30 BAR DIGITAL PRESSURE SENSOR



Pressure Sensor Type: **Digital Pressure and Altimeter Sensor Modules**
Pressure Type: **Absolute**
Proof Pressure Range: **50 bar**
Output Signal Type: **24 bit ADC**
Pressure Accuracy: **±1.5mbar**

All 0-30 BAR DIGITAL PRESSURE SENSOR (1)

Features

Product Type Features

Sensor Package	Surface Mountable
Pressure Sensor Type	Digital Pressure and Altimeter Sensor Modules
Pressure Type	Absolute

Electrical Characteristics

Supply Voltage Range	1.5 - 3.6 V
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Dimensions

Product Width	3.3 mm[.13 in]
Product Length	3.3 mm[.129 in]
Product Height	2.75 mm[.108 in]

Usage Conditions

Operating Temperature Range	-20 - 85 °C[-4 - 185 °F]
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Operation/Application

Resolution	.2
Output Interface	I2C
Proof Pressure Range	50 bar



Output Signal Type	24 bit ADC
Pressure Accuracy	±1.5mbar

Product Compliance

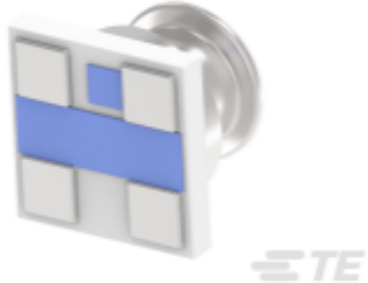
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) 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

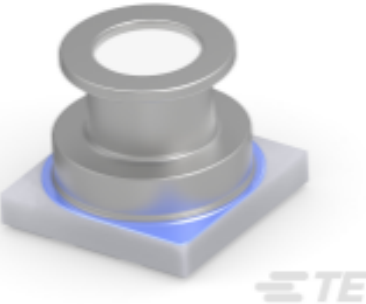
Product Compliance Disclaimer

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

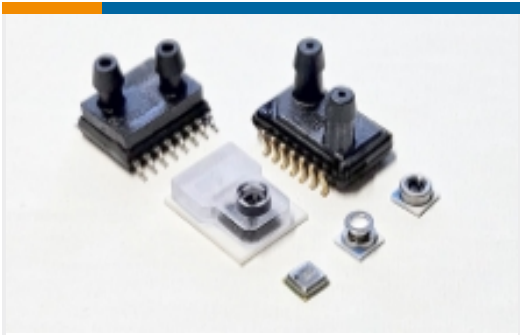


TE Part # MS583702BA01-50
MS5837-02BA01 2BA T&R PRESSURE SEN



TE Part # 20018051-50
MS5849-30BA36 CL RESISTANT LS T&R

Also in the Series | MEAS MS5837



Board Mount Pressure Sensors(3)



Sensor Development Boards and
Evaluation Kits(2)

Customers Also Bought



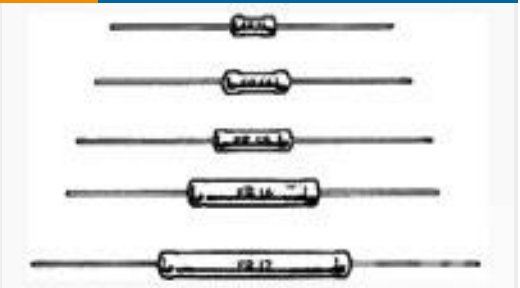
TE Part # D07339-000
HW-191064-10-9



TE Part # 20000979-00
MS5837-02BA21 2BA LS T&R
PRESSURE SEN



TE Part # 4-1614884-1
CPF 0805 100R 0.1% 25PPM 1K RL



TE Part # 1623746-3
ER74 10R 5% AMMO PK



TE Part # 1623097-3
CRG0805 1% 10K 10K RL



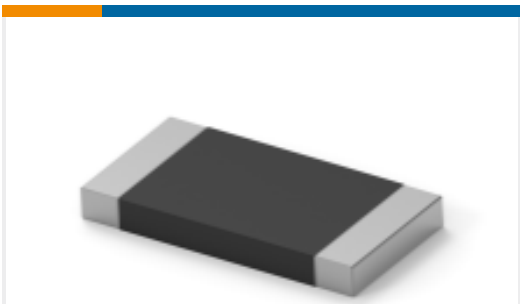
TE Part # 1-2176362-9
RQ 0402 61R9 0.1% 10PPM 5K RL



TE Part # 6-1768018-2
EET-1938P-8A



TE Part # 1-1879501-1
CRGH2512 5% 2R7 2W



TE Part # 4-2176421-7
TLRP 2512 2.0W R008 1% 50PPM 4K RL



TE Part # 10212722-00
SLEEPING SENSOR, 8.5X770MM

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_MS583730BA01-50_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_MS583730BA01-50_1.3d_igs.zip



English

Customer View Model

[ENG_CVM_CVM_MS583730BA01-50_1.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[MS5837-30BA](#)

English