

MS583702BA01-50

✓ ACTIVE

MEAS | MEAS MS5837

TE Internal #: MS583702BA01-50

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

[View on TE.com >](#)



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



Pressure Sensor Type: Digital Pressure and Altimeter Sensor Modules

Pressure Type: Absolute

Proof Pressure Range: 10 bar

Pressure: 2 bar

Output Signal Type: 24 bit ADC

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

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

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

Operation/Application

Output Interface	I2C
Resolution	.016



Proof Pressure Range	10 bar
Output Signal Type	24 bit ADC
Pressure Accuracy	±0.5mbar

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	Not Yet Reviewed
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: JAN 2025 (247) Candidate List Declared Against: JUNE 2024 (241) 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

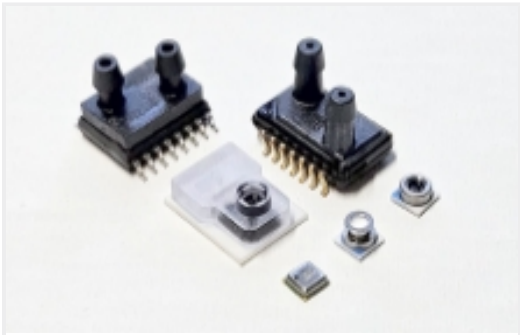


TE Part # 20000979-00
MS5837-02BA21 2BA LS T&R
PRESSURE SEN



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

Also in the Series | MEAS MS5837



Board Mount Pressure Sensors(3)



Sensor Development Boards and Evaluation Kits(2)

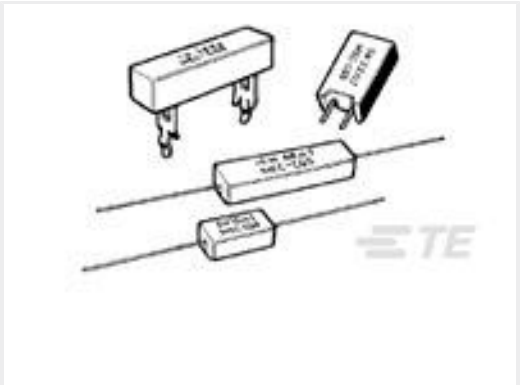
Customers Also Bought



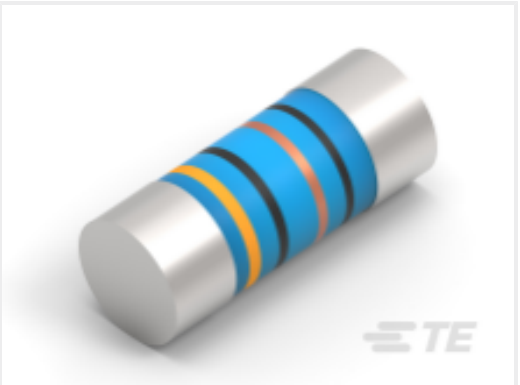
TE Part #20008669-50
MS5839-02BA36 CL RESISTANT LS
T&R SEN



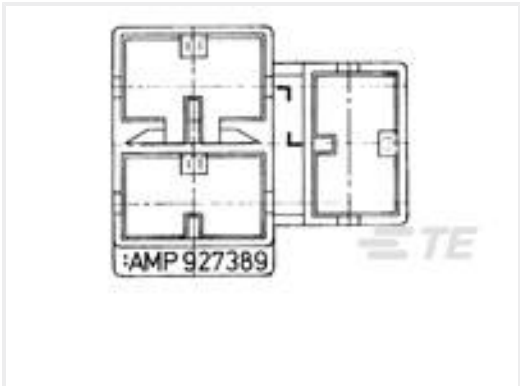
TE Part #FG24008
OMNI,FG,2400-2485MHZ 2442.5MHZ,
6dBd



TE Part #2-1623795-7
SQP5 100R 5% WIRE



TE Part #9-2176316-4
MELF SMA-A 330K 1% 50PPM 0207 1W



TE Part #927389-1
PL 3P HOUSING PA66 BLACK



TE Part #OF86315-FNF
OMNI,FG,863-928MHz ,5dBi,



TE Part #2-1879216-9
CPF0402 110K 0.1% 25PPM 1K RL



TE Part #170342-2
250 FASTON,REC.,20-14 AWG,TPBR



TE Part #5120534-1
1FHP,64,30A/S,N,C,S10,12,13,15



TE Part #1-172130-1
250 FASTON HSG,PLUG 2P NATURAL

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

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