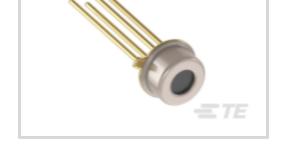
G-TPCO-031 <

MEAS | MEAS TS TE Internal #: G-TPCO-031 TE Internal Description: Analog Thermopile TO-18, FOV 110,RTD Ref Analog Infrared (IR) Thermopile Sensor

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Sensors > Temperature Sensors > Thermopile Infrared Sensors > Analog Infrared (IR) Thermopile Sensor



Model Number: TS318-1B0814

Thermopile Infrared Sensor Type: Thermopile Temperature Element

Thermopile Infrared Sensor Package: TO-18

Thermopile Infrared Sensor Wire Length: 13.5 mm [.53 in]

TP Voltage (T_BB/T_amb): **8.4 ± 2.1 mV**

All Analog Infrared (IR) Thermopile Sensor (3)

Features

Product Type Features

Wire/Cladding Type

Metal Pin



Model Number	TS318-1B0814
Thermopile Infrared Sensor Type	Thermopile Temperature Element
Filter Type	Long Wave Pass 5.5µm
Electrical Characteristics	
TP Voltage (T_BB/T_amb)	$8.4 \pm 2.1 \text{ mV}$
Dimensions	
Thermopile Infrared Sensor Wire Length	13.5 mm[.53 in]
Thermopile Infrared Sensor Diameter	5.3 mm[.21 in]
Thermopile Infrared Sensor Length	2.7 mm[.106 in]
Usage Conditions	
Ambient Temperature Range	-20 – 85 °C[-4 – 185 °F]
Target T_Object Range	-40 – 300 °C
T_BB/T_amb for TP Voltage	100/25 °C
TP Resistance (at T_ref)	$70 \pm 30 \text{ k}\Omega$
Thermistor Type	Nickel-RTD

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Analog Thermopile TO-18, FOV 110, RTD Ref



R_Thermistor (at T_ref)	$100 \pm 5 \text{ k}\Omega$
T_ref for R_Thermistor	25 °C
T1/T2 for β -Value of NTC	0–50 °C
Operation/Application	
T_BB/T_amb Responsivity	+100 and +25 °C
Responsivity (T_BB/T_amb)	122
T_ref for TP Resistance	25 °C
Packaging Features	
Thermopile Infrared Sensor Package	TO-18
Other	
Field of View at FWHM	110 °
Optics	Flat Window
β-Value (at T1/T2) NTC	3955 %

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: JUL 2021 (219) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Not Yet Reviewed
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

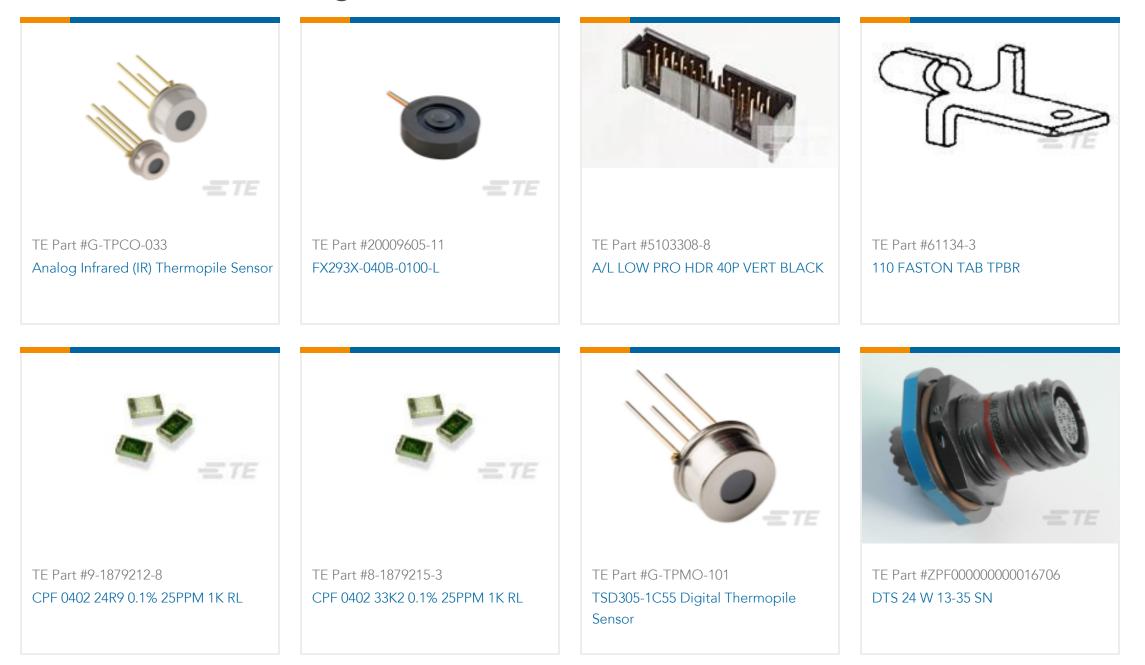
Compatible Parts



Also in the Series | MEAS TS



Customers Also Bought



Analog Thermopile TO-18, FOV 110, RTD Ref





Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_G-TPCO-031_A.2d_dxf.zip

English

Customer View Model ENG_CVM_CVM_G-TPCO-031_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_G-TPCO-031_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages Datasheet Analog Infrared Thermopiles

English