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G-TPCO-032 ✔ ACTIVE

MEAS | MEAS TS

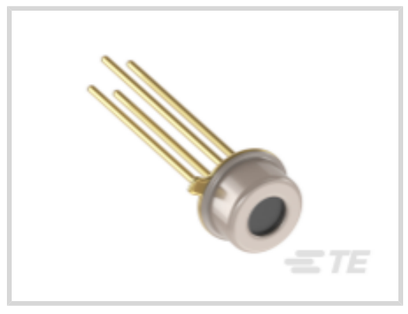
TE Internal #: G-TPCO-032

TE Internal Description: Analog Thermopile TO-18, FOV 110,NTC Ref

Analog Infrared (IR) Thermopile Sensor

View on TE.com >

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



Model Number: **TS318-11C55**

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): **5 ± 1.3 mV**

All Analog Infrared (IR) Thermopile Sensor (3)

Features

Product Type Features

Wire/Cladding Type	Metal Pin
Model Number	TS318-11C55
Thermopile Infrared Sensor Type	Thermopile Temperature Element
Filter Type	Broad Band Pass 8-14µm

Electrical Characteristics

TP Voltage (T_BB/T_amb)	5 ± 1.3 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

TCR (at T1/T2) for RTD	6178 ± 150 ppm/°K
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 ± 30 kΩ

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Thermistor Type	NTC
R_Thermistor (at T_ref)	1 ± .004 kΩ
T_ref for R_Thermistor	0 °C
T1/T2 for TCR of RTD	0 – 100 °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

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

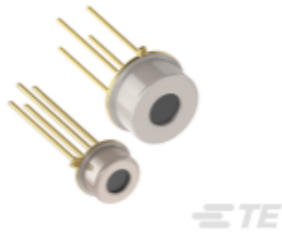
Product Compliance Disclaimer

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

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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 # CAT-IR0001
Analog Infrared (IR) Thermopile Sensor



TE Part # G-TPCO-035
TS418-1N426



TE Part # G-TPMO-014
TSEV0108L39

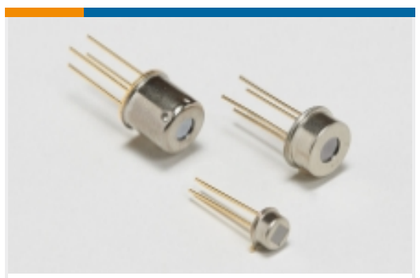


TE Part # G-TPCO-019
TS105-10L5.5MM

Also in the Series | MEAS TS

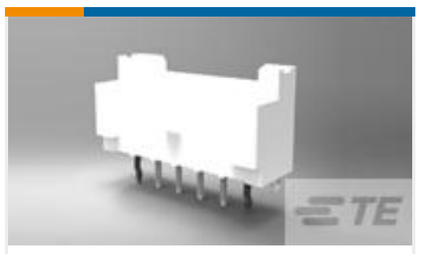


Digital Component Sensors(3)

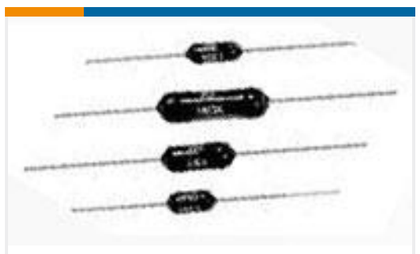


Thermopile Infrared Sensors(9)

Customers Also Bought



TE Part #1744418-5
5 POS EP 2.5 HDR, GLOW WIRE



TE Part #1-1879627-1
H4P 27R 1% 100PPM



TE Part #1-1879352-5
RR02 5% 1R2 AMMO



TE Part #T4111502051-000
M12,MALE,STRAIGHT,D CODE,5P, PG9,GOLD



TE Part #1060-20-0122
PIN, SF, SIZE 20, 16-22, NI/NI



TE Part #1-1825008-0
DRS10RA04=Rot Dip,R/A



TE Part #1-2176250-6
TJT 500W 330R 5%

TE Part #1393725-9
C42334A 43A 6=RP622 FEDERLEI

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G-TPCO-032

Analog Thermopile TO-18, FOV 110,NTC Ref

TE Part #1393726-7
C42334A 43A 5=RP622 MESSERLE



TE Part #1478768-4
ANTI-VIB NYLON GLD 20MM GREY

Documents

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_G-TPCO-032_A.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_G-TPCO-032_A.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_G-TPCO-032_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

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