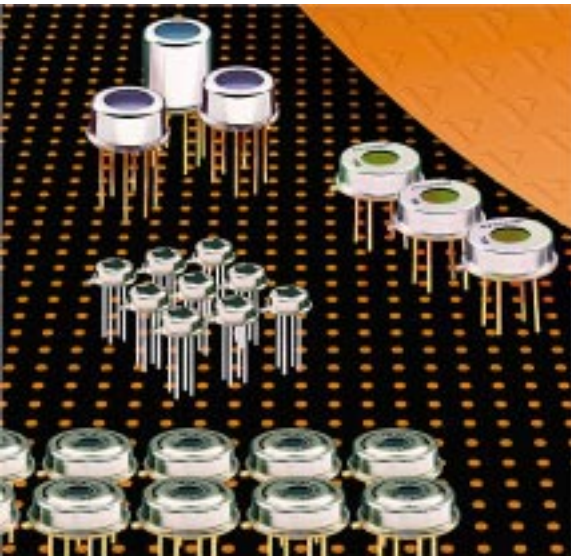


Thermopile Infrared Detectors

Thermopile Detector TPS 334 L10.6



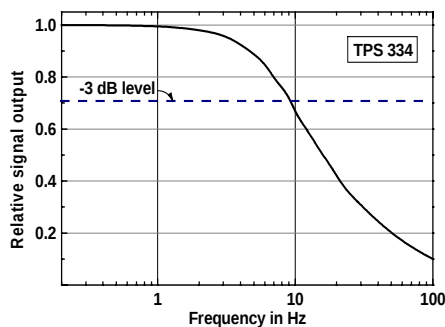
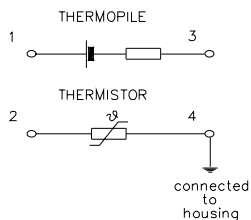
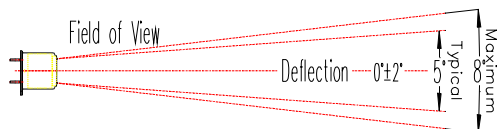
New: Integrated silicon lens

Small spot size: distance – spot size ratio: D:S = 11:1

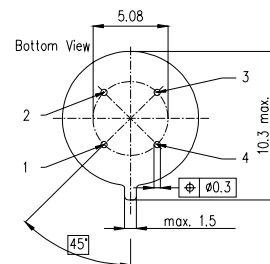
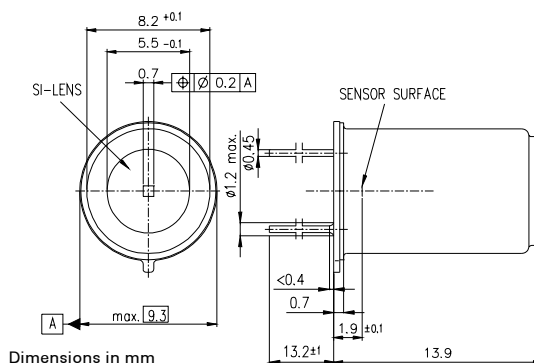
For industrial remote temperature measurement applications

The **TPS 334 L10.6** detector extends the features of the TPS 334 through an integrated micromachined silicon lens optics.

In TO 5 type housing it employs a chip of $0.7 \times 0.7 \text{ mm}^2$ absorber size with a $30 \text{ k}\Omega$ thermistor as temperature reference and a lens with 10.6 mm focal length. An inlay in the housing suppresses reflections at the cap. The lens is not coated, but if a restricted wavelength region is desired (e.g. $8\text{--}14 \mu\text{m}$), it is possible to equip the inlay with an additional filter (e.g. G9). The sensor shows a flat sensitivity characteristics over the wavelength.



Parameters	TPS 334 L10.6	typical	units	condition
Sensitive area	0.7 x 0.7		mm ²	absorbing area
Window size	5.5		mm	diameter
DC sensitivity	75		V/W	500K BB w/o optics
Resistance	75		k Ω	
Noise	21		nV/ $\sqrt{\text{Hz}}$	r.m.s. 300K,
NEP	0.28		nW/ $\sqrt{\text{Hz}}$	500K BB w/o optics
D*	1.6×10^8		cm $\sqrt{\text{Hz/W}}$	500K BB w/o optics
TC of sensitivity	0.02		%/K	
TC of resistance	0.02		%/K	
Time constant	25		ms	
Storage temperature	-40	100	°C	non permanent
Operating temperature	-40	100	°C	non permanent
Thermistor resistance	30		k Ω	25°C
beta	3964		K	25°C/100°C
Field of view	5		°	at 50% points



Europe:
PerkinElmer Optoelectronics GmbH
 Wenzel Jaksch Str 31
 Wiesbaden / Germany
 Phone +49(0)611 492 0
 Fax +49(0)611 492 170

USA:
PerkinElmer Optoelectronics
 2175 Mission College Blvd
 Santa Clara, CA 95054
 Phone +408 565 0830
 Fax +408 565 0703

Asia:
PerkinElmer Optoelectronics
 47, Ayer Rajah Crescent #06-12
 Singapore 139947
 Phone +65 775 2022
 Fax +65 775 1008

Copyright © Each Manufacturing Company.

All Datasheets cannot be modified without permission.

This datasheet has been download from :

www.AllDataSheet.com

100% Free DataSheet Search Site.

Free Download.

No Register.

Fast Search System.

www.AllDataSheet.com