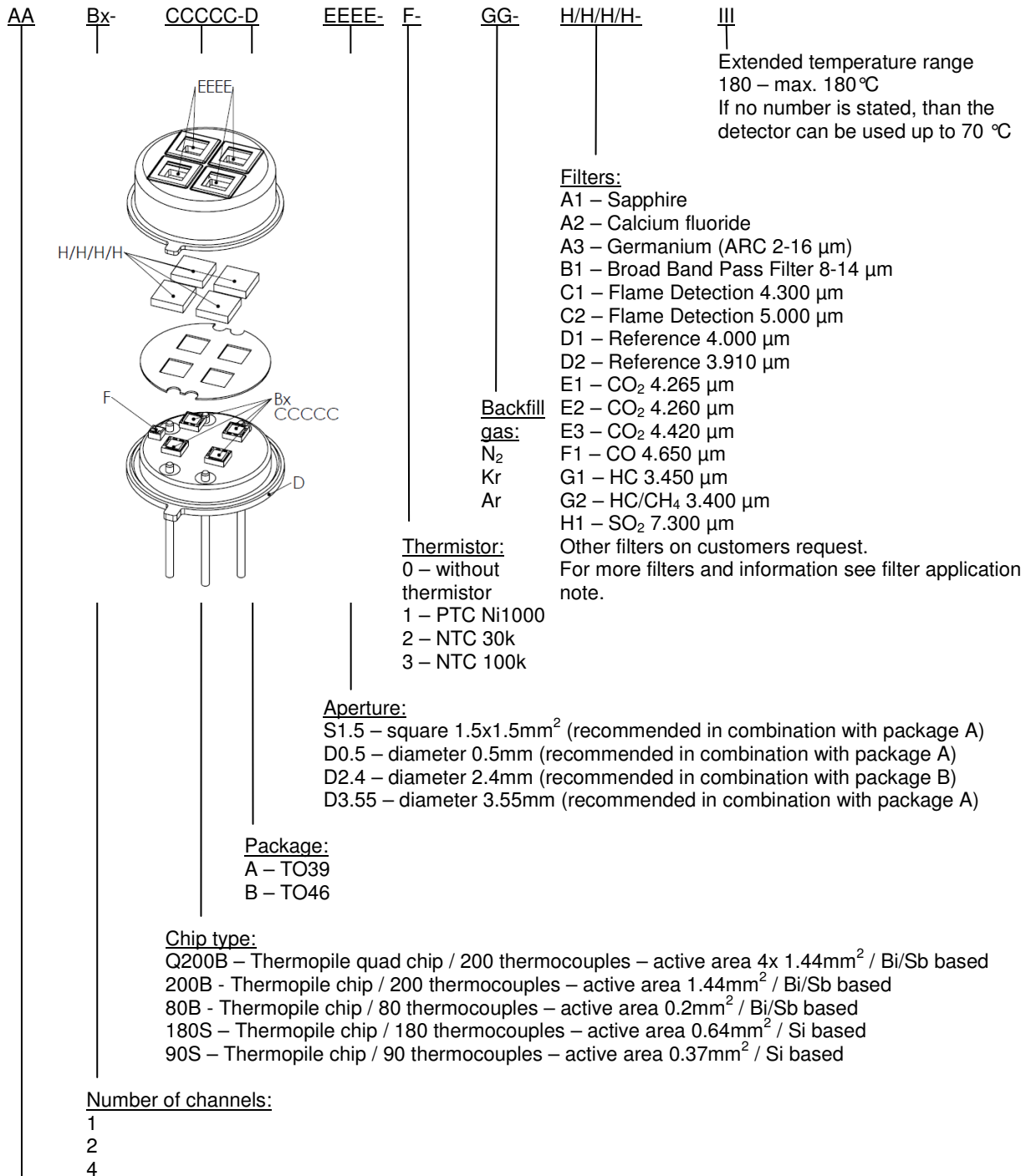


## Thermopile Detectors

The product key of the thermopile detectors is defined in the following way:

Sensor Type (AA) Number of Channels (Bx) Chip type (CCCCC) - Package (D) – Aperture (EEE) – Thermistor (F) – Backfill Gas (GG) – Filters (H/H/H/H) – Extended Temperature Range (III)



**Sensor Type:**  
 TS Thermoelectric sensor

For example: **TS4xQ200B-A-S1.5-1-N2-A1/B1/C1/D1**



**PRODUCT CODE INFRARED COMPONENTS**  
**MICRO-HYBRID ELECTRONIC GMBH**

**Overview thermopile chips**

Material Thermoelements	BiSb/Sb Best detectivity				Si based Low time constant	
	Temperature Range	-20 ... +70°C			+180°C	-20 ... +85°C
Chip type	Quad chip TSQ200B	Single chip TS200B	Single chip TS80B	Single chip TS80HT	Single chip TS180S	Single chip TS90S
Preferred application	Gas measurement	Gas measurement	Temperature measurement	Temperature measurement	Gas measurement	Gas measurement
Used in detector						
Quad channel TO39	TS4xQ200B- A-S1.5-	TS4x200B-A- S1.5-			TS4x200S-A- S1.5-	TS4x90S-A- S1.5-...-180
Dual channel TO39		TS2x200B-A- S1.5-			TS2x200S-A- S1.5	TS2x90S-A- S1.5-...-180
Single channel TO39		TS1x200B-A- D3.55-	TS1x80B-A- D0.5-	TS1x80B-A- D0.5-...-180		
Single channel TO46		TS1x200B-B- D2.55-			TS1x180S- D2.55-	

Under development, available 2<sup>nd</sup> quarter of 2011

## Standard Thermistors for Multichannel Thermopile Detectors

### Typ1:

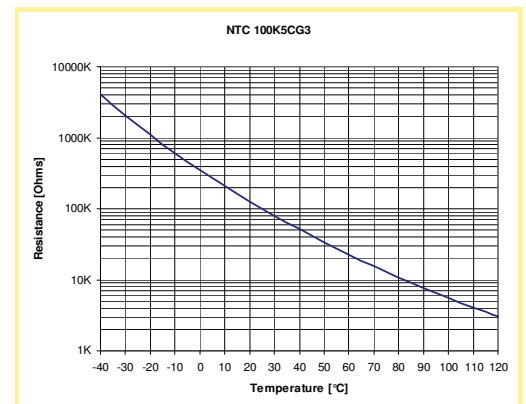
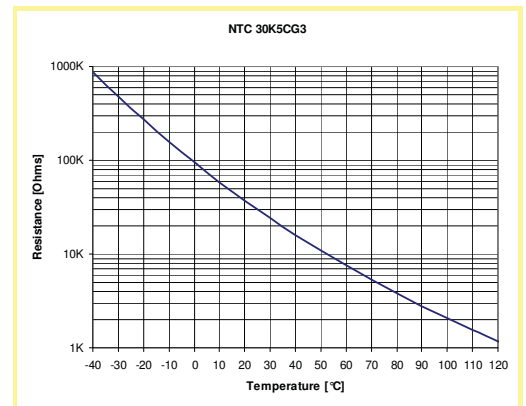
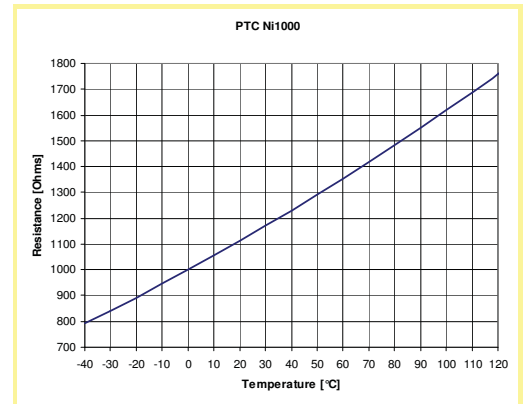
Name: Ni1000  
Typ : PTC  
R0 (0°C): 1000  
TCR (0 ... 100°C): 6178 ppm/K

### Typ2:

Name: 30K5CG3  
Typ: NTC  
R0 (25°C): 30 K  
Alpha Value (25°C): -4300 ppm/K  
Beta Value 25/85: 3942 K

### Typ3:

Name: 100K6CG3  
Typ: NTC  
R0 (25°C): 100 K  
Alpha Value (25°C): -4680 ppm/K  
Beta Value 25/85: 4261 K



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