



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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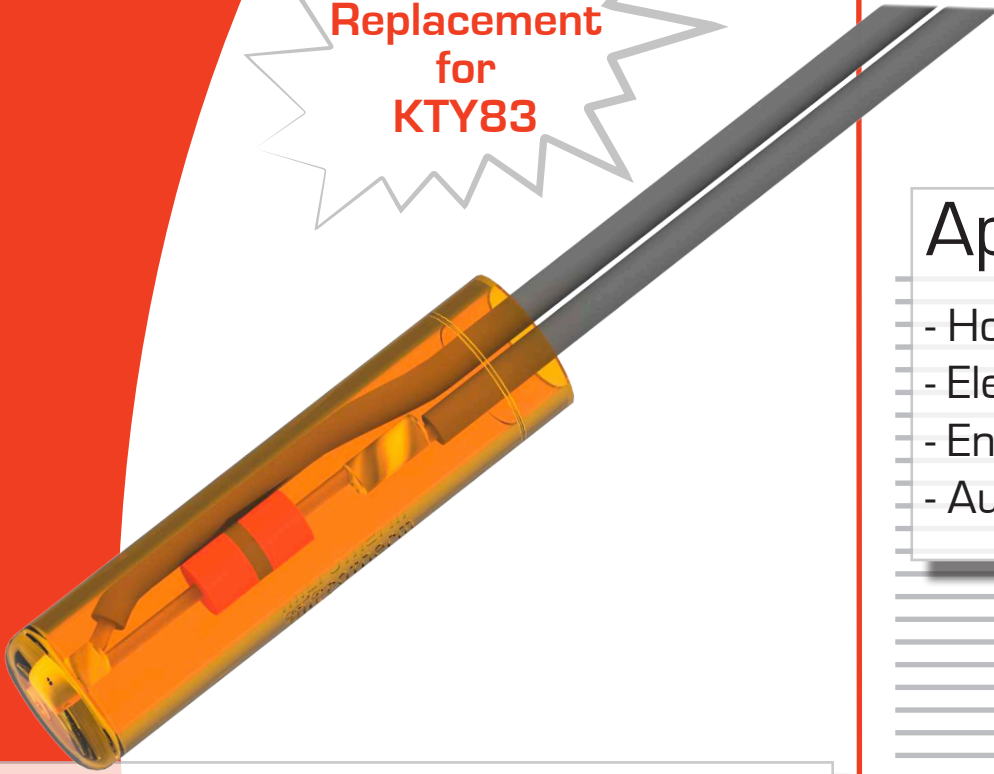
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Temperature sensor

STS2

Replacement
for
KTY83



Applications

- Household appliances
- Electronics
- Engineering
- Automotive

Benefits

- Temperatures from -40°C up to $+170^{\circ}\text{C}$
- Excellent long-term temperature stability
- High precision and reliability
- No polarity reversal (+/-) possible



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Technical data

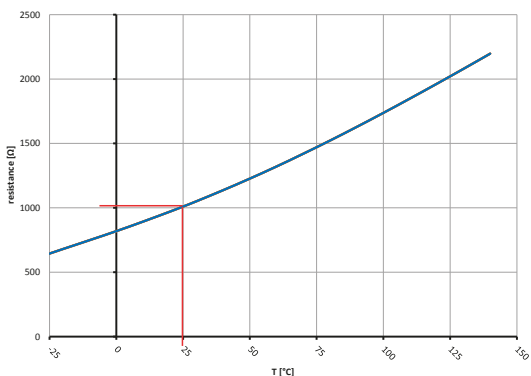
ratings	type	STS2
typ. resistance at 100°C (+-3%)		1010 Ω
operating temperature range		-40°C ... +140 (145)°C
min. insulation resistance (100 Vdc)		100 MΩ
operating current		5 mA
max. rated power		50 mW

Standard types

type execution	illustration	drawing dimensions (mm)	technical description
STS2 G918			housing PPS leads ETFE, AWG24, white
STS2 U129			shrink sleeve Kynar® leads ETFE, AWG24, white
STS2 CHIP			chip only no insulation, no leads

Temperature vs. resistance

T°C	-10	0	10	20	25	30	40	50	60	70	80	90	100	110	120	130	140
min.	735	806	881	959	1000	1039	1123	1210	1301	1396	1494	1596	1699	1806	1912	2024	2135
typ.	749	819	893	970	1010	1051	1137	1227	1321	1420	1522	1628	1737	1849	1963	2079	2197
max.	762	832	905	981	1020	1063	1151	1244	1342	1444	1550	1660	1775	1891	2014	2134	2258



ordering example

STS2 1010 1 L360 500 G918

- Housing number
- Length of leads (+/- 10 mm)
- Leads white, AWG24, ETFE
- Tolerance (%)
- R at 25°C
- Type of sensor

Remark: Values of electric resistance correspond almost exactly to KTY83.
Above 140°C the sensor may lose its linearity.



CANTHERM™

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