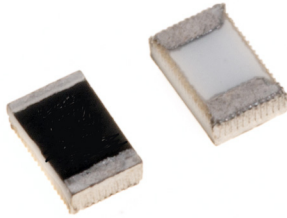


# RTDS Series

Thin Film Platinum Temperature Sensor

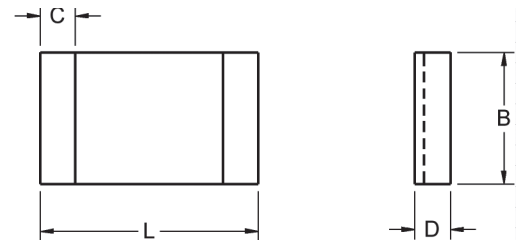


- Sizes: 0805 / 1206
- Standardized nominal values
- Wide temperature range from -50° to +150°C
- Class 0.1%, 0.15% and 0.3% tolerances
- TCR of 3850ppm from 0° to 100 °C
- DIN EN 60751 compliant
- Halogen Free



SPECIFICATIONS						
Type	Resistance Values ( $\Omega$ @ 0°C)	DIN Class   Tolerance	Dimensions			
			L inches (mm)	B inches(mm)	D inches (mm)	C inches (mm)
RTDS0805	100, 500, 1K	AA   0.1% (0° to +150°C)	0.079 ±0.008 (2.00 ± 0.2)	0.051 ±0.008 (1.30 ± 0.2)	0.019 ±0.008 (0.50 ± 0.2)	0.015 ±0.008 (0.40 ± 0.2)
RTDS1206		A   0.15% (-30° to +150°C) B   0.3% (-50° to +150°C)	0.122±0.008 (3.10 ± 0.2)	0.059±0.008 (1.50 ± 0.2)	0.031±0.008 (0.80 ± 0.2)	0.025±0.008 (0.63 ± 0.2)

Resistance Value ( $\Omega$ @ 0°C)	Recommended Measurement Current	Maximum Current
100	1.0 mAmps	7.0 mAmp
500	0.7 mAmp	3.0 mAmp
1K	0.1 mAmp	1.0 mAmp



Type	Self Heating Coefficient (E); $\Delta t = i^2 * R * E$		Response Time (Seconds)			
	in Water ( $v=0.2m/s$ )	in Air ( $v=2m/s$ )	in Water ( $v=0.4m/s$ )		in Air ( $v=1m/s$ )	
RTDS0805	0.02 K/mW	0.15 K/mW	0.1 ( $t_{0.5}$ )	0.3 ( $t_{0.9}$ )	2.6 ( $t_{0.5}$ )	7.9 ( $t_{0.9}$ )
RTDS1206	0.02 K/mW	0.20 K/mW	0.1 ( $t_{0.5}$ )	0.3 ( $t_{0.9}$ )	3.3 ( $t_{0.5}$ )	9.5 ( $t_{0.9}$ )

Insulation Resistance	>10 M $\Omega$ at room temperature
Stability	< 500ppm / year
Terminations	Electroplated tin wrap-around contacts with diffusion barrier
Processing	Solderability per DIN IEC 68 part 2 Reflow: $\leq 240^\circ\text{C} / 8\text{s}$ Flood: $\leq 260^\circ\text{C} / 10\text{s}$
Storage	MSL-1
Operating Conditions	RTDS series temperature sensors may not be used in unprotected moist environments or in aggressive atmospheres. User should verify suitability on a case-by-case basis.

## Ordering Information

Part Description: Part Type - DIN Class- Resistance

Example: RTDS1206AA 500 OHM

Bulk packaging is standard, card tape per EN 60286-3 is available in multiples of 5,000 pieces  
Card tape packaging allows for a minimum 12 month storage in normal environmental conditions

Last digit of formal part number is reserved for internal use