

EPCOS PTC Thermistors



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PTC SMD THERMISTORS

The new superior series of EPCOS SMD PTC thermistors for limit temperature measurement are available in case sizes 0402, 0603 and 0805. Compared to the standard series, these components employ a more homogenous ceramic material, which enables them to exhibit excellent performance in reliability tests and be reflow and wave-soldered at temperatures of up to 280 °C. They have been qualified based on AEC-Q200 Rev-C and satisfy the rigorous requirements for use in automotive electronics applications involving frequent and rapid temperature changes.

PTC thermistors are ceramic components whose electrical resistance rapidly increased when a certain temperature is exceeded. This material property is used in countless applications in today's electrical and electronic engineering, for example as resettable fuses against current overload or as sensors that detect local overheating. Here the focus is on PTC Thermistors that are designed for over heat sensing.

Features:

- Qualification based on AEC-Q200 rev. C
- Suitable for reflow and wave soldering (up to 280°C)
- Fast and reliable response
- UL Approval to UL 1434 expected 2010

Applications:

- DC/DC converters
- Notebooks
- Home appliances
- Dimmers
- Electronics ballasts
- Automotive electronics
- Over-temperature protection of power components



Packaging		
Case Code	Packaging	Min. Qty.
0402	Cardboard Tape	10000
0603	Cardboard Tape	4000
0805	Blister Tape	4000

Specifications:

- Max. Operating Voltage: 32
- Operating Temperature Range: -40°C to +125°C
- Wide range of temperatures between 70°C and 145°C in steps of 10 K

DIMENSIONS: mm		
Case Size 0402	Case Size 0603	Case Size 0805
<p>Termination</p>	<p>Termination</p>	<p>Termination</p>
Solder Pad:	Solder Pad:	Solder Pad:

MOUSER STOCK NO.	Epcos Part No.	Case Size	R25 (Ω)	Resistance Tol.	Max. Power (mW)	Response Temp. (°C)	Price Each				Reel Qty.	Price Per Piece
							1	50	100	500		
871-B59421A0075A062	B59421A0075A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0085A062	B59421A0085A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0095A062	B59421A0095A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0105A062	B59421A0105A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0115A062	B59421A0115A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0125A062	B59421A0125A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59421A0135A062	B59421A0135A062	0402	470	50%	2	75 to 135	1.33	1.02	.765	.575	10000	.355
871-B59641A0085A062	B59641A0085A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0095A062	B59641A0095A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0105A062	B59641A0105A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0115A062	B59641A0115A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0125A062	B59641A0125A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0135A062	B59641A0135A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59641A0145A062	B59641A0145A062	0603	470	50%	4	75 to 145	1.38	1.06	.787	.596	4000	.373
871-B59721A0070A062	B59721A0070A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0080A062	B59721A0080A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0090A062	B59721A0090A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0100A062	B59721A0100A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0110A062	B59721A0110A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0120A062	B59721A0120A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457
871-B59721A0130A062	B59721A0130A062	0805	680	50%	6	70 to 130	1.70	1.31	1.05	.773	4000	.457

PTC SMD THERMISTORS FOR THERMAL MANAGEMENT IN LED DRIVER CIRCUITS

Features:

- Fast and reliable response
- Suitable for reflow soldering only
- Compliant to RoHS directive 2002/95/EC
- UL approval to UL1434 for B59601A* and B59604* (file number E69802)
- Lead-free tinned terminations

Applications:

- DC/DC converters
- Home appliances
- Dimmers
- Electronic ballasts
- Over-temperature protection of power components
- Secondary protection of battery packs
- SMPS
- Notebooks

Specifications:

- Max. Operating Voltage: 32V DC
- Operating Temperature Range: -40°C to +125°C

DIMENSIONS: mm

Case Size 0603
<p>Termination</p>
Solder Pad:

MOUSER STOCK NO.	Epcos Part No.	Case Size	R25 (Ω)	Resistance Tol.	Max. Power (mW)	Response Temp. (°C)	Price Each				Reel Qty.	Price Per Piece
							1	50	100	500		
871-B59603A0055A062	B59603A0055A062	0603	470	15%	4	55	.96	.65	.586	.559	4000	.394
871-B59603A0085A062	B59603A0085A062	0603	470	15%	4	85	.96	.65	.586	.559	4000	.394
871-B59603A0105A062	B59603A0105A062	0603	470	15%	4	105	.96	.65	.586	.559	4000	.394
871-B59602A0055B062	B59602A0055B062	0603	110	15%	4	70	.93	.62	.567	.54	4000	.381