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Product news

Large-diameter EPCOS ICLs for high-watt applications

The P27 series of EPCOS NTC inrush current limiters with a nominal disk diameter of 27 mm and lead spacing of 7.5 mm is extending the portfolio of large NTC ICLs for industrial electronics applications. The high material density of the new NTC ICLs enables a volume-efficient, high-performance design with a disk thickness of just ≤ 7 mm. The new P27 series with the ordering code B57127P0*M301 features extremely stable and reliable electrical characteristics. It offers a rated resistance of 0.5Ω to 10Ω at 25°C and can handle high currents of up to 30 A, depending on type.



Thanks to their very low resistance in the operating state, NTC ICLs offer very low power dissipation in both AC and DC circuits. The large-diameter components of the new P27 series are especially suitable for use in large electric motors and drives and all kinds of high-watt power supplies as well as in industrial applications such as welding and plasma cutting equipment. The coating material of the P27 series of ICLs is flame retardant and UL 94 V-0 approved. The new components are RoHS-compatible and UL approved (E69802). Samples of the P27 series are available.

Key data

Type	Nominal disk diameter [mm]	Lead spacing [mm]	High current endurance (I_{test}) * [A]	Max. current (I_{max}) ** [A]	Resistance at 25°C (R_{25}) [Ω]	Min. resistance at I_{test} (R_{min}) [Ω]
B57127P0508M301	27	7.5	30	24	0.5	0.011
B57127P0109M301			30	22	1	0.013
B57127P0209M301			23	16	2	0.022
B57127P0509M301			20	12	5	0.033
B57127P0709M301			17	11	7	0.045
B57127P0100M301			15	9	10	0.053

* 50 hours at 25°C

** 1000 hours according to IEC 60539-1

Further information on the products can be found under www.epcos.com/ntc_icl.

Contact Jerry Kuang, PPD VAR PM, Zhuhai

Customers are asked to address inquiries directly to their sales contacts.

EPCOS AG · A TDK Group Company

Office: St.-Martin-Strasse 53, 81669 Munich · Post: P.O.Box 80 17 09, 81617 Munich, Germany
 Headquarters: Munich · Commercial register of the local court (Amtsgericht): Munich HRB 127250
 Chairman of the Supervisory Board: Dr. Werner Faber
 Management Board: Joachim Zichlarz, Chairman · Joachim Thiele · Dr. Norbert Hess · Christian Block
www.epcos.com

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