TDK
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Products & Technologies

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Standard series of transformers for DSL splitters

TDK-EPC, a group company of the TDK Corporation, presents a new standard series of splitter transformers from EPCOS for DSL applications. The series comprises 8 inductance values ranging from 1 to 10 mH.

Thanks to their dimensions of only 9.6 x 7.8 x 10.9 mm³, the new transformers with EP7 cores permit highly space-saving designs. In addition to good symmetry properties, the components are distinguished by very low signal distortions. Their low DC resistance, which is between 0.8 and 20 Ω depending on the type, ensures minimal losses. The transformers are RoHS-compatible.

In addition to the new standard series, TDK-EPC continues to supply customer-specific transformers with corresponding cores and inductance values. TDK-EPC also offers film capacitors used in the design of splitters.

Glossary

- DSL: Digital Subscriber Line. DSL designates a series of standards for the high-speed transmission of data between the subscriber and the exchange via twisted copper pairs.
- Splitters: Systems comprising transformers and capacitors used to separate the telephone and DSL signals. Splitters are needed both at the subscriber access and the exchange.

Main applications

- Splitters for separating DSL and telephone signals

Main features and benefits

- Low space requirement
- Good symmetry properties
- Low signal distortion

Key data

Inductance [mH]	Resistance [Ω]	Stray inductance [µH]	Self-capacitance [pF]	Test voltage [V]	Ordering code
1.0	0.8	0.7	33	1500	B82803A0105A007
1.5	1.4	1.4	37	1500	B82803A0155A007
2.2	2.4	2.7	40	1500	B82803A0225A007
2.7	3.6	2.9	45	1500	B82803A0275A007
3.3	5.0	4.0	45	1000	B82803A0335A007
4.7	5.8	5.3	45	1000	B82803A0475A007
6.8	9.8	10	45	1000	B82803A0685A007
10	20	13	45	800	B82803A0106A007