

Literature and reference materials

FERROXCUBE APPLICATION LITERATURE

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IEC STANDARDS ON SOFT FERRITES

60050-221	International Electrotechnical Vocabulary (IEV) - Chapter 221 : Magnetic materials and components - General terms
60133	Dimensions for pot cores made of magnetic oxides and associated parts
60205	Calculation of the effective parameters of magnetic piece parts
60401	Terms and nomenclature for cores made of magnetically soft ferrites
60367	Cores for inductors and transformers for telecommunications (replaced by 62044)
60401-1	Part 1 : Terms used for physical irregularities
60401-2	Part 2 : Reference of dimensions
60401-3	Part 3 : Guidelines on the format of data appearing in manufacturers' catalogues of transformer and inductor cores
60424-1	Ferrite cores - Guide on the limits of surface irregularities - Part 1 : General specification
60431	Dimensions of square cores (RM cores) made of magnetic oxides and associated parts (low-profile cores (RM/ILP) will move to 62313)
60647	Dimensions for magnetic oxide cores intended for use in power supplies (EC cores)
61185	Magnetic oxide cores (ETD cores) intended for use in power supply applications - Dimensions
61246	Magnetic oxide cores (E cores) of rectangular cross-section and associated parts - Dimensions
61247	PM cores made of magnetic oxides and associated parts - Dimensions
61332	Soft ferrite material classification
61596	Magnetic oxide EP cores and associated parts for use in inductors and transformers - Dimensions
61604	Dimensions of uncoated ring cores of magnetic oxides
61631	Test method for the mechanical strength of cores made of magnetic oxides
61860	Dimensions of low-profile cores made of magnetic oxides (will be replaced by 62313)
62024-1	High frequency inductive components - Electrical characteristics and measuring methods - Part 1 : Nanohenry range chip inductor
62025-1	High frequency inductive components - Non-electrical characteristics and measuring methods - Part 1 : Fixed surface mount inductors for use in electronic and telecommunication equipment
62044	Cores made of soft magnetic materials - Measuring methods
62044-1	Part 1 : Generic specification
62044-2	Part 2 : Magnetic properties at low excitation level
62044-3	Part 3 : Magnetic properties at high excitation level
62211	Inductive components - Reliability management
62313	Ferrite cores - Shapes and dimensions for planar magnetics applications
62358	Ferrite cores - Standard inductance factor (AL) and its tolerance
62398	Technology approval schedule for ferrite cores (IECQ / CECC QC210018)

Literature and reference materials

RELATED IEC STANDARDS

- 60068 Environmental testing
- 60068-2-20 Test T : Soldering
- 60068-2-58 Test Td : Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)
- 60085 Method for determining the thermal classification of electrical insulation
- 60286 Packaging of components for automatic handling
- 60286-1 Part 1 : Tape packaging of components with axial leads on continuous tapes
- 60286-2 Part 2 : Tape packaging of components with unidirectional leads on continuous tapes
- 60286-3 Part 3 : Packaging of leadless components on continuous tapes

Literature and reference materials

REFERENCE BOOKS ON MAGNETIC COMPONENT DESIGN

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| 1. | Soft Ferrites, Properties and Applications | 2nd Edition, E.C. Snelling, Butterworths Publishing, 80 Montvale Ave., Stoneham, MA 02180 Tel: (617) 928-2500 |
| 2. | Ferrites for Inductors and Transformers | C. Snelling & A. Giles, Research Studies Press, distributed by J. Wiley & Sons, 605 Third Ave., New York, NY 10016 |
| 3. | Transformer and Inductor Design Handbook | C. McLyman, Marcel Dekker, 207 Madison Ave., New York, NY10016 |
| 4. | Magnetic Core Selection for Transformers and Inductors | C. McLyman, Marcel Dekker, 207 Madison Ave., New York, Ny10016 |
| 5. | Handbook of Transformer Applications | W. Flanigan, McGraw Hill Publishing Co., 1221 Ave. of Americas, New York, NY 10020 |
| 6. | Transformers for Electronic Circuits | N. Grossner, McGraw Hill Publishing Co., 1221 Ave. of Americas, New York NY 10020 |
| 7. | Magnetic Components-Design and Applications | S. Smith Van Nostrand Reinhold Co., 135 West 50th St., New York, NY 10020 |
| 8. | Design Shortcuts and Procedures for Electronic Power Transformers and Inductors | Ordean Kiltie, O. Kiltie & Co. 2445 Fairfield, Ft. Wayne, IN 46807 |
| 9. | Switching and Linear Power Supply, Power Converter Design | A. Pressman, Hayden Book Co. Inc., 50 Essex St., Rochelle Park., NY 07662 |
| 10. | High Frequency Switching Power Supplies | G. Chrysiss, McGraw Hill Publishing Co, 1221 Ave. of Americas, NY |
| 11. | Design of Solid State Power Supplies | 3rd Edition, E. Hnatek, Van Nostrand Reinhold Co., New York, NW 10020 |
| 12. | Power Devices and Their Applications | Edited by: Dr. F. Lee & Dr. D. Chen, VPEC, Vol. III, 1990. Tel: (703) 231-4536 |
| 13. | Application of Magnetism | J.K. Watson, John Wiley & Sons, Inc. 605 Third Ave., New York, NY 10016 |
| 14. | Applied Electromagnetics | M.A. Plonus, McGraw Hill Publishing Co., 1221 Ave. of Americas, New York, NY 10020 |
| 15. | Transmission Line Transformers | J. Sevick, American Radio Relay League, 225 Main Street, Newington, CT 06111 |