

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 (replaced by 62317-2)
- 60205 Calculation of the effective parameters of magnetic piece parts
- 60367 Cores for inductors and transformers for telecommunications (replaced by 62044)
- 60401 Terms and nomenclature for cores made of magnetically soft ferrites
- 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 (replaced by 62317-4)
- 60647 Dimensions for magnetic oxide cores intended for use in power supplies (EC cores) (replaced by 62317-11)
- 61185 Magnetic oxide cores (ETD cores) intended for use in power supply applications - Dimensions (replaced by 62317-6)
- 61246 Magnetic oxide cores (E cores) of rectangular cross-section and associated parts - Dimensions (replaced by 62317-8)
- 61247 PM cores made of magnetic oxides and associated parts - Dimensions (replaced by 62317-10)
- 61332 Soft ferrite material classification
- 61596 Magnetic oxide EP cores and associated parts for use in inductors and transformers - Dimensions (replaced by 62317-5)
- 61604 Dimensions of uncoated ring cores of magnetic oxides (replaced by 62317-12)
- 61631 Test method for the mechanical strength of cores made of magnetic oxides
- 61760-1 Surface mounting technology - Part 1 : Standard method for the specification of surface mounting components (SMDs)
- 61860 Dimensions of low-profile cores made of magnetic oxides (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 (replaced by 62317-9)

Literature and reference materials

62317	Ferrite cores - Dimensions
62317-1	Part 1 : General specification
62317-2	Part 2 : Pot cores
62317-3	Part 3: Half pot cores
62317-4	Part 4: RM cores
62317-5	Part 5: EP cores
62317-6	Part 6: ETD cores
62317-7	Part 7: EER cores
62317-8	Part 8: E cores
62317-9	Part 9: Planar cores
62317-10	Part 10: PM cores
62317-11	Part 11: EC cores
62317-12	Part 12 : Uncoated ring cores
62317-13	Part 13 : PQ cores
62317-14	Part 14 : EFD cores
62323	Dimensions of half pot cores made of ferrite for inductive proximity switches (replaced by 62317-3)
62333	Noise suppression sheet for digital devices and equipment
62333-1	Part 1 : Definitions and general properties
62333-2	Part 2 : Measuring methods
62358	Ferrite cores - Standard inductance factor (AL) and its tolerance
62398	Technology approval schedule for ferrite cores (IECQ / CECC QC210018)

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 |