

SMD REFERENCE SHEET

PASSIVE RECTANGULAR

SMD PACKAGE TYPE	DIMENSIONS (MM)	DIMENSIONS (INCHES)
01005	0.4 x 0.2	0.016 x 0.008
0201	0.61 x 0.2	0.024 x 0.008
0402	1.0 x 0.5	0.039 x 0.020
0603	1.6 x 0.8	0.063 x 0.031
0805	2.0 x 1.2	0.079 x 0.047
1004	2.0 x 2.0	0.079 x 0.079
1206	3.0 x 1.5	0.118 x 0.059
1210	3.2 x 2.5	0.126 x 0.100
1608	4.2 x 1.6	0.165 x 0.063
1912	4.4 x 1.6	0.173 x 0.126
2010	5.0 x 2.5	0.200 x 0.100
2512	6.3 x 3.2	0.250 x 0.126

SOD (SMALL OUTLINE DIODE)

SOD PACKAGE TYPE	DIMENSIONS (MM)
SOD-123	1.4 x 0.6 x 0.09
SOD-123	1.25 x 0.65 x 0.09
SOD-123	1.7 x 1.25 x 0.09
SOD-128	0.4 x 1.7 x 1.1
SOD-123	0.66 x 1.7 x 1.6
SOD-602	0.3 x 1.0

DO-214

DO PACKAGE TYPE	DIMENSIONS (MM)
DO-214AA	5.1 x 3.0 x 2.01
DO-214AB	7.0 x 3.0 x 2.25
DO-214AC	5.2 x 2.4 x 2.01

MELF (METAL ELECTRODE LEADLESS FACE)

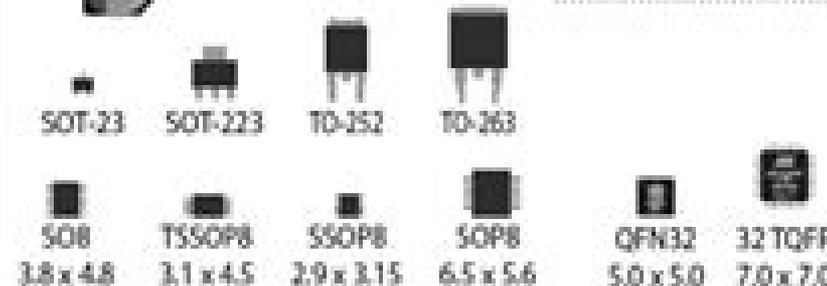
SMD PACKAGE TYPE	DIMENSIONS (MM)	POWER
MiniMELF / 1010	1.0 x 1.1	0.2 - 0.5W / 150V
MiniMELF / 1206	1.6 x 1.4	0.25 - 0.4W / 200V
MELF / 1608	1.6 x 2.2	0.4 - 0.6W / 200V

TANTALUM CAPACITORS

SMD PACKAGE TYPE	DIMENSIONS (MM)	EA STANDARD
Size A	3.2 x 1.6 x 1.6	EA 1014-16
Size B	3.0 x 2.0 x 1.9	EA 1024-21
Size C	4.0 x 3.2 x 2.0	EA 1032-26
Size D	7.2 x 4.0 x 3.4	EA 1040-31
Size E	7.2 x 4.2 x 4.1	EA 1040-41

ALUMINIUM CAPACITORS

SMD PACKAGE TYPE	DIMENSIONS (MM)
Size A	3.2 x 3.2
Size B	4.2 x 4.2
Size C	5.2 x 5.2
Size D	6.0 x 6.0
Size E / F	6.3 x 6.3
Size G	10.2 x 10.2



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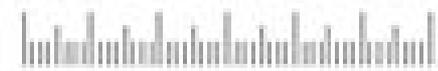
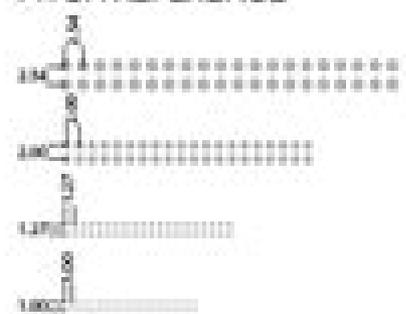
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Victor M. Corman



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The Electronics Handbook Jerry C. Whitaker, 2018-10-03 During the ten years since the appearance of the groundbreaking bestselling first edition of The Electronics Handbook the field has grown and changed tremendously With a focus on fundamental theory and practical applications the first edition guided novice and veteran engineers along the cutting edge in the design production installation operation and maintenance of electronic devices and systems Completely updated and expanded to reflect recent advances this second edition continues the tradition The Electronics Handbook Second Edition provides a comprehensive reference to the key concepts models and equations necessary to analyze design and predict the behavior of complex electrical devices circuits instruments and systems With 23 sections that encompass the entire electronics field from classical devices and circuits to emerging technologies and applications The Electronics Handbook Second Edition not only covers the engineering aspects but also includes sections on reliability safety and engineering management The book features an individual table of contents at the beginning of each chapter which enables engineers from industry government and academia to navigate easily to the vital information they need This is truly the most comprehensive easy to use reference on electronics available

Introduction to Microsystem Packaging Technology

Yufeng Jin, Zhiping Wang, Jing Chen, 2017-12-19 The multi billion dollar microsystem packaging business continues to play an increasingly important technical role in today's information industry The packaging process including design and manufacturing technologies is the technical foundation upon which function chips are updated for use in application systems and it is an important guarantee of the continued growth of technical content and value of information systems Introduction to Microsystem Packaging Technology details the latest advances in this vital area which involves microelectronics optoelectronics RF and wireless MEMS and related packaging and assembling technologies It is purposefully written so that each chapter is relatively independent and the book systematically presents the widest possible overview of packaging knowledge Elucidates the evolving world of packaging technologies for manufacturing The authors begin by introducing the fundamentals history and technical challenges of microsystems Addressing an array of design techniques for packaging and integration they cover substrate and interconnection technologies examples of device and system level packaging and various MEMS packaging techniques The book also discusses module assembly and optoelectronic packaging reliability methodologies and analysis and prospects for the evolution and future applications of microsystems packaging and associated environmental protection With its research examples and targeted reference questions and answers to reinforce understanding this text is ideal for researchers engineers and students involved in microelectronics and MEMS It is also useful to those who are not directly engaged in packaging but require a solid understanding of the field and its associated technologies

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papers and 8181 OQ The Electrical Engineering Handbook, Second Edition Richard C. Dorf, 1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical chemical material and mathematical data completes this comprehensive resource Every major topic is thoroughly covered and every important concept is defined described and illustrated Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students A distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field No other single volume available today offers this combination of broad coverage and depth of exploration of the topics The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come **The Electrical Engineering Handbook - Six Volume Set** Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It

explores the emerging fields of sensors nanotechnologies and biological effects Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world s foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it will continue to be a platform to launch the next wave of advancements The Handbook s latest incarnation features a protective slipcase which helps you stay organized without overwhelming your bookshelf It is an attractive addition to any collection and will help keep each volume of the Handbook as fresh as your latest research

Surface-mount Technology for PC Boards Glenn R. Blackwell, James K. Hollomon, 2006 Learn to generate high manufacturing yields low testing costs and reproducible designs using the latest components of surface mount technology SMT Manufacturers managers engineers students and others who work with printed circuit boards will find a wealth of cutting edge information about SMT and fine pitch technology FPT in this new edition Practical data and clear illustrations combine to clearly and accurately present the details of design for manufacturability environmental compliance design for test and quality reliability for today s miniaturized electronics packaging

Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar Richard C. Dorf, 2018-10-03 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has expanded into a set of six books carefully focused on a specialized area or field of study Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar represents a concise yet definitive collection of key concepts models and equations in these areas thoughtfully gathered for convenient access Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Articles include

defining terms references and sources of further information Encompassing the work of the world's foremost experts in their respective specialties Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar features the latest developments the broadest scope of coverage and new material in emerging areas Electronic Packaging and Production, 1996 *Electronic Systems Maintenance Handbook* Jerry C. Whitaker, 2017-12-19 The days of troubleshooting a piece of gear armed only with a scope voltmeter and a general idea of how the hardware works are gone forever As technology continues to drive equipment design forward maintenance difficulties will continue to increase and those responsible for maintaining this equipment will continue to struggle to keep up The *Electronic Systems Maintenance Handbook* Second Edition establishes a foundation for servicing operating and optimizing audio video computer and RF systems Beginning with an overview of reliability principles and properties a team of top experts describes the steps essential to ensuring high reliability and minimum downtime They examine heat management issues grounding systems and all aspects of system test and measurement They even explore disaster planning and provide guidelines for keeping a facility running under extreme circumstances Today more than ever the reliability of a system can have a direct and immediate impact on the profitability of an operation Advocating a carefully planned systematic maintenance program the richly illustrated *Electronic Systems Maintenance Handbook* helps engineers and technicians meet the challenges inherent in modern electronic equipment and ensure top quality performance from each piece of hardware VLSI Systems Design, 1987 **EDN**, 1989 **Electri-onics**, 1986 **Evaluation Engineering**, 1987 **Proceedings of the 1989 International Symposium on Microelectronics, October 24-26, 1989, Baltimore Convention Center** International Society for Hybrid Microelectronics, 1989 **Fourth International Conference on Factory 2000 - Advanced Factory Information, 3-5 October 1994** Institution of Electrical Engineers. Computing & Control Division, 1994 The proceedings of the October 1994 conference comprise technical papers in sessions on expert systems implementation of factory automation strategic and scheduling considerations technology transfer and quality issues simulation and modeling two sessions knowledge based systems manufacturing systems two sessions quality two sessions manufacturing processes and concurrent engineering There are also 39 poster papers Reproduced from typescripts No index Distributed by INSPEC Annotation copyright by Book News Inc Portland OR **Fundamentals of Microsystems Packaging** Rao Tummala, 2001-05-08 LEARN ABOUT MICROSYSTEMS PACKAGING FROM THE GROUND UP Written by Rao Tummala the field's leading author *Fundamentals of Microsystems Packaging* is the only book to cover the field from wafer to systems including every major contributing technology This rigorous and thorough introduction to electronic packaging technologies gives you a solid grounding in microelectronics photonics RF packaging design assembly reliability testing and manufacturing and its relevance to both semiconductors and systems You'll find Full coverage of electrical mechanical chemical and materials aspects of each technology Easy to read schematics and block diagrams Fundamental approaches to all system issues

Examples of all common configurations and technologies wafer level packaging single chip multichip RF opto electronic microvia boards thermal and others Details on chip to board connections sealing and encapsulation and manufacturing processes Basics of electrical and reliability testing **Proceedings of the Technical Program, National Electronic Packaging and Production Conference** ,1985 Journal of Electronic Engineering ,1993 Industrial and Manufacturing Systems Cornelius T. Leondes,1997-11-20 Industrial and Manufacturing Systems serves as an in depth guide to major applications in this focal area of interest to the engineering community This volume emphasizes the neural network structures used to achieve practical and effective systems and provides numerous examples Industrial and Manufacturing Systems is a unique and comprehensive reference to diverse application methodologies and implementations by means of neural network systems It will be of use to practitioners researchers and students in industrial manufacturing electrical and mechanical engineering as well as in computer science and engineering Quality control techniques Active noise and vibration control Chemical processing systems Process monitoring and diagnosis Robotic assembly in electronics manufacturing systems Smart structural systems of improved effectiveness Closed loop feedback control in uncertain nonlinear manufacturing systems Adaptive neural controllers in industrial systems Machine tool control systems Emphasis is placed on neural network structures for achieving practical and effective systems with numerous examples illustrating the text Practitioners researchers and students in industrial manufacturing electrical and mechanical engineering as well as in computer science and engineering will find this volume a unique and comprehensive reference to diverse application methodologies and implementations by means of neural network systems **Electronic Design** ,2002

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Table of Contents Smt Packages Surface Mount Smd Component Sizes

1. Understanding the eBook Smt Packages Surface Mount Smd Component Sizes
 - The Rise of Digital Reading Smt Packages Surface Mount Smd Component Sizes
 - Advantages of eBooks Over Traditional Books
2. Identifying Smt Packages Surface Mount Smd Component Sizes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Smt Packages Surface Mount Smd Component Sizes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smt Packages Surface Mount Smd Component Sizes
 - Personalized Recommendations
 - Smt Packages Surface Mount Smd Component Sizes User Reviews and Ratings
 - Smt Packages Surface Mount Smd Component Sizes and Bestseller Lists
5. Accessing Smt Packages Surface Mount Smd Component Sizes Free and Paid eBooks
 - Smt Packages Surface Mount Smd Component Sizes Public Domain eBooks
 - Smt Packages Surface Mount Smd Component Sizes eBook Subscription Services

- Smt Packages Surface Mount Smd Component Sizes Budget-Friendly Options
- 6. Navigating Smt Packages Surface Mount Smd Component Sizes eBook Formats
 - ePub, PDF, MOBI, and More
 - Smt Packages Surface Mount Smd Component Sizes Compatibility with Devices
 - Smt Packages Surface Mount Smd Component Sizes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Smt Packages Surface Mount Smd Component Sizes
 - Highlighting and Note-Taking Smt Packages Surface Mount Smd Component Sizes
 - Interactive Elements Smt Packages Surface Mount Smd Component Sizes
- 8. Staying Engaged with Smt Packages Surface Mount Smd Component Sizes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smt Packages Surface Mount Smd Component Sizes
- 9. Balancing eBooks and Physical Books Smt Packages Surface Mount Smd Component Sizes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smt Packages Surface Mount Smd Component Sizes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smt Packages Surface Mount Smd Component Sizes
 - Setting Reading Goals Smt Packages Surface Mount Smd Component Sizes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smt Packages Surface Mount Smd Component Sizes
 - Fact-Checking eBook Content of Smt Packages Surface Mount Smd Component Sizes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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