

ANSI/ESD STM11.11-2022

ESD Association Standard Test Method

ANSI/ESD STM11.11-2022

Limited Revision of ANSI/ESD STM11.11-2021



*for the Protection of Electrostatic
Discharge Susceptible Items*

*Surface Resistance Measurement of
Planar Materials*

*Electrostatic Discharge Association
218 West Court Street
Rome, NY 13440-2069*

*An American National Standard
June 9, 2022*

Published August 12, 2022

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for the Protection of Electrostatic Discharge
Susceptible Items***

***Surface Resistance Measurement of
Planar Materials***

Approved March 2, 2022
EOS/ESD Association, Inc.



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Published by:

Electrostatic Discharge Association
218 West Court Street
Rome, NY 13440

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Printed in the United States of America

ISBN: 1-58537-344-3

(This foreword is not part of ESD Association Standard Test Method ANSI/ESD STM11.11-2022)

FOREWORD

This standard test method¹ was developed to fulfill a need to measure planar materials not provided for by existing ASTM resistivity measurement methods. This procedure is a resistance measurement on the surface of the material and is applied without regard to the sample's mechanism of conduction. In cases where it is valid to convert resistance to resistivity, the resistivity values are a factor of ten higher than the resistance values obtained by this test method.

This standard test method specifies test fixture configuration, environmental conditions, a systems verification procedure, and test voltages. This test method has been proven to be repeatable within one half-order of magnitude through inter-laboratory tests.

This standard test method was originally designated EOS/ESD S11.11-1993 and approved on February 9, 1993. ANSI/ESD STM11.11-2001 was a reaffirmation and redesignation of EOS/ESD S11.11-1993 and was approved on May 20, 2001. ANSI/ESD STM11.11-2006 was a reaffirmation of ANSI/ESD STM11.11-2001 and approved on September 10, 2006. ANSI/ESD STM11.11-2015 is a revision of ANSI/ESD STM11.11-2006 and was approved on May 17, 2013. ANSI/ESD STM11.11-2021 was a revision of ANSI/ESD STM11.11-2015 and was approved on January 26, 2021. ANSI/ESD STM11.11-2022 is a limited revision of ANSI/ESD STM11.11-2021 and was approved on March 2, 2022.

¹ **ESD Association Standard Test Method (STM):** A definitive procedure for the identification, measurement, and evaluation of one or more qualities, characteristics, or properties of a material, product, system, or process that yield a **reproducible test** result.

At the time ANSI/ESD STM11.11-2022 was prepared, the 11.0 Packaging Subcommittee had the following members:

David E. Swenson Affinity Static Control Consulting, LLC		
Taylor Bahr Orbis Corporation	Stephen Blackard Finisar Corporation	Kevin Cleary Desco Industries
Kevin Duncan Seagate Technology	Reinhold Gaertner, TAS Rep Infineon Technologies	David Girard Stacion Support Services, Inc.
Toni Gurga Reliant ESD	Shane Heinle Digi-Key Electronics	Douglas Holtz Conductive Containers, Inc.
Matt Jane Tesla	John Kinnear IBM	Mike Manders The United States Air Force
Chuck McClain Micron Technologies	Robert Hank Mead BAE Systems	Andrew Nold Teradyne, Inc.
Daniel O'Brien University of Dayton Research Institute	Dale Parkin Seagate Technology	Keith Peterson Missile Defense Agency
Rachel Rienstra Lockheed Martin Space Systems Company	Tom Rogers Polyonics	Jeff Salisbury ii-vi
Wolfgang Stadler Intel Deutschland GmbH	Matt Strickland The Boeing Company	Julius Turangan Dou Yee Enterprises
Robert Vermillion RMV Technology Group, LLC	Scott Ward Texas Instruments, Inc.	Stanley Weitz Electro-Tech Systems, Inc.
Craig Zander Transforming Technologies		

The following individuals contributed to the development of ANSI/ESD STM11.11-2021, ANSI/ESD STM11.11-2015, ANSI/ESD STM11.11-2006, and EOS/ESD S11.11-1993:

Vicky Ambuehl U.S. Air Force	Taylor Bahr Orbis Corporation	Godfrey (Ben) Baumgartner Lockheed
Brent Beamer 3M	Stephen Blackard Finisar Corporation	Don Boehm Dou Yee Enterprises
Kevin Cleary Desco Industries	Roger Drain Web Technologies, Inc.	Kevin Duncan Seagate Technology
Kurt Edwards Lubrizol Conductive Polymers	Gene Felder Desco Industries, Inc.	Mary Fouts Seco Industries Inc.
Steve Fowler OSI, Inc.	Reinhold Gaertner Infineon Technologies AG	Steve Gerken The United States Air Force

Ronald J. Gibson IBM Canada Ltd.	David Girard Staticon Support Services, Inc.	Toni Gurga Reliant ESD
Stephen Halperin SH&A	Jay Hamlin Medtronic	Shane Heinle Digi-Key Electronics
David Hines Cryovac	Meghan Hodge 3M	Doug Holtz Conductive Containers, Inc.
Matt Jane Tesla	John T. Kinnear Jr. IBM	Rick Knight
Stephen Koehn 3M Company	Mike Manders The United States Air Force	Gregory Manning NASA/ARES Technical Services
Chuck McClain Micron Technologies	Robert Hank Mead BAE Systems	Gene Monroe NASA - LARC
Andrew Murello Harris Semiconductor	Howard Myers Motorola, GEG	Andrew Nold Teradyne, Inc.
Daniel O'Brien University of Dayton Research Institute	Elaine Olson Intel Corporation	Dale Parkin Seagate Technology
Keith Peterson Missile Defense Agency	Timothy Prass Raytheon	Robert Renninger AT&T Bell Labs
Rachel Rienstra Lockheed Martin Space Systems Company	Francisco Rodriguez 3M	Tom Rogers Polyonics
Jeff Salisbury Finisar Corporation	Wolfgang Stadler Intel Deutschland GmbH	Matt Strickland The Boeing Company
David E. Swenson Affinity Static Control Consulting, LLC	Fred Tenzer Interpac Technologies	Julius Turangan Dou Yee Enterprises
Robert Vermillion RMV Technology Group, LLC	Scott Ward Texas Instruments	Joel Weidendorf IBM
Stanley Weitz Electro-Tech Systems, Inc.	Craig Zander Transforming Technologies	Thomas Yuan Heng Zhang Hyperion Catalysis International, Inc.