VISHAY INTERTECHNOLOGY, INC.
www.vishay.com

Distributed by C&H Technology, Inc.
www.chtechnology.com

LOW VOLTAGE POWER CAPACITORS
VISHAY ESTA



DATA BOOK

VSE-DB0052-1602

ABOUT VISHAY INTERTECHNOLOGY, INC.

GLOBAL INDUSTRY LEADER

Vishay Intertechnology was founded in 1962 by Dr. Felix Zandman, with a loan from his cousin Alfred P. Slaner. The Company was named after Dr. Zandman's ancestral village in Lithuania, in memory of family members who perished in the Holocaust. The Company's initial product portfolio consisted of foil resistors and foil resistance strain gages. In 1985, having grown from a start-up into the world's leading manufacturer of these products, the Company began a series of strategic acquisitions to become a broad-line manufacturer of electronic components. Today, Vishay Intertechnology is one of the world's largest manufacturers of discrete semiconductors and passive electronic components.

As Vishay Intertechnology grew through innovations and acquisitions, its resistive foil technology products became non-core businesses. In 2010, Vishay Intertechnology spun off these non-core businesses into an independent company listed on the New York Stock Exchange: Vishay Precision Group (NYSE: VPG).

DIVERSE MARKETS

Vishay Intertechnology supports customers in virtually every major market sector. Vishay components are used every day in designs around the world, for applications in industrial, communications, transportation, consumer, medical, and defense products. Vishay has manufacturing plants in the Americas, Asia, Europe, and Israel, as well as sales offices worldwide. Its innovations in technology, successful acquisition strategy, superior product quality, and "one-stop shop" service to customers have made the Company a global industry leader.

STRATEGIC ACQUISITIONS

2014	Capella Microsystems Holy Stone Polytech
2013	MCB Industrie
2012	HiRel Systems
2011	Huntington Electric: Resistor businesses
2008	KEMET: Wet tantalum capacitor business
2007	International Rectifier: PCS business
2002	BCcomponents Beyschlag
2001	General Semiconductor Infineon: Infrared components business Mallory (NACC) Tansitor
2000	Cera-Mite Electro-Films Spectrol
1998	Siliconix Telefunken
1994	Vitramon
1993	Roederstein
1992	Sprague
1988	Sfernice
1987	Draloric
1985	Dale

SOLUTIONS FOR GROWTH

Vishay is very well positioned to provide components for new macroeconomic growth drivers such as connectivity, mobility, and, sustainability. Through its R&D, engineering, quality programs, and sales initiatives, it generates a steady stream of innovative components to enable designers to create new generations of end products.

In tablets, smartphones, and wearables, Vishay components support power management, wireless connectivity, display interface, and touch screen controls, provide protection from the electrostatic discharge (ESD) that can cause component and system failure, and perform other functions. Vishay components are also found in wireless charging devices, mobile payment systems and other near-field communications systems, servers, network devices, base stations, solid-state drives, telematics systems, and other products and systems in our increasingly interconnected world.

In the area of mobility, to take just one example, Vishay components support a wide range of functions in electric power steering, including electromagnetic interference (EMI) filtering, quiescent current switch-off, three-phase motor switching, current sensing, and voltage division. Vishay components also are used in transmission control units, exhaust systems, start-stop systems, climate controls, braking and safety, lighting, infotainment, proximity and gesture recognition, and more. In hybrid vehicles, Vishay components are used in main inverters, high-voltage bus systems, and energy recuperation. Power capacitors, inductors, and high-power resistors are used to move high-speed trains, buses, intralogistic devices, aircraft, ships, and other carriers in modern infrastructure.

In the area of sustainability, Vishay components are used in the main inverters, power filters, and pitch and system controls of wind turbines. Components in wind turbine systems include high-power semiconductor modules, high-voltage MOSFETs, power ICs, diodes and rectifiers, optical isolators, shunt resistors, crowbar resistors, inductors, and power capacitors. Vishay components are used in solar panels and inverters, and for on-panel power conversion. They are used in smart meters and smart grids, power transmission and distribution systems, power grid quality stabilization, oil and gas exploration equipment, energy harvesting, and more.

A WORLD OF SOLUTIONS