Attracting Tomorrow

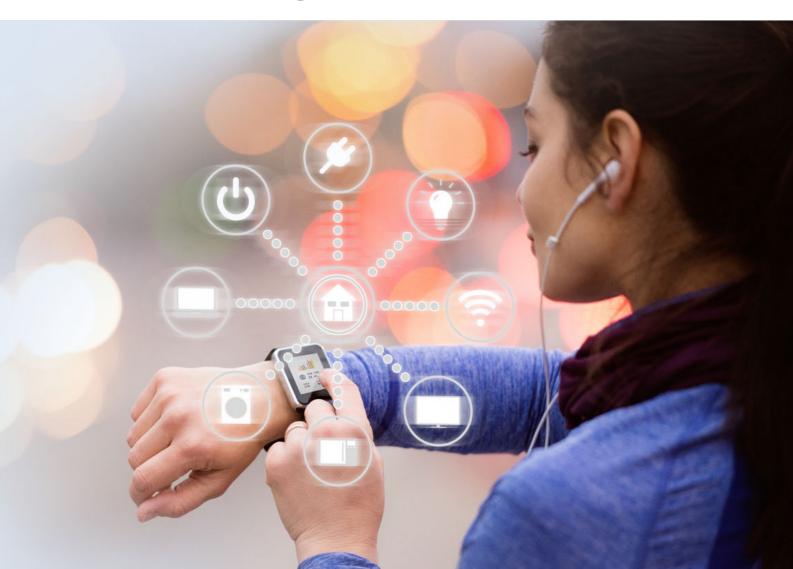


CeraCharge®

World's first rechargeable solid-state SMT battery

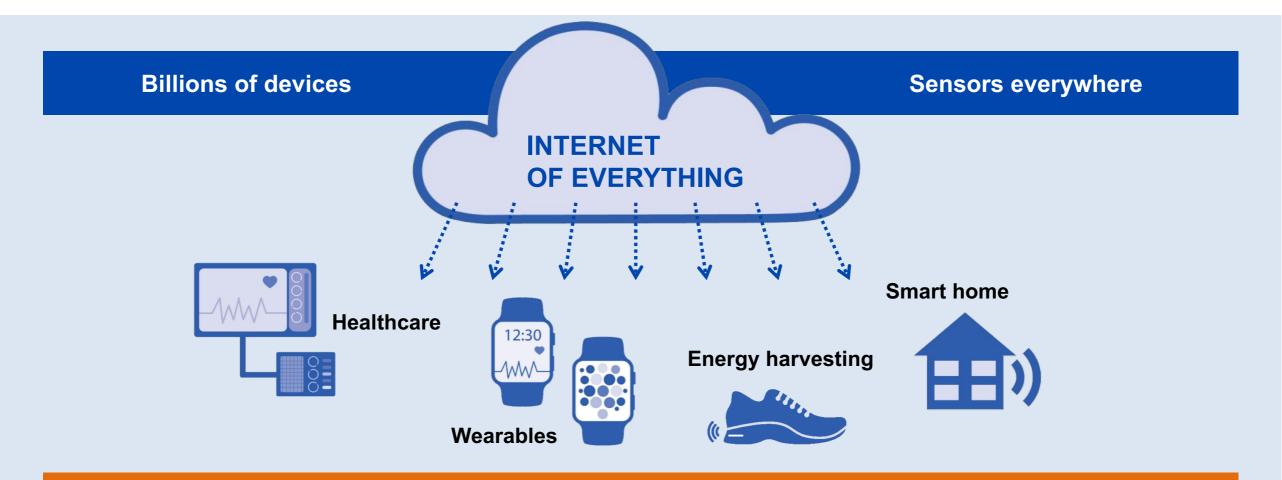
TDK Electronics AG

Piezo & Protection Devices Business Group Multilayer Technology Munich, Germany November 2020





Demand for a new battery technology

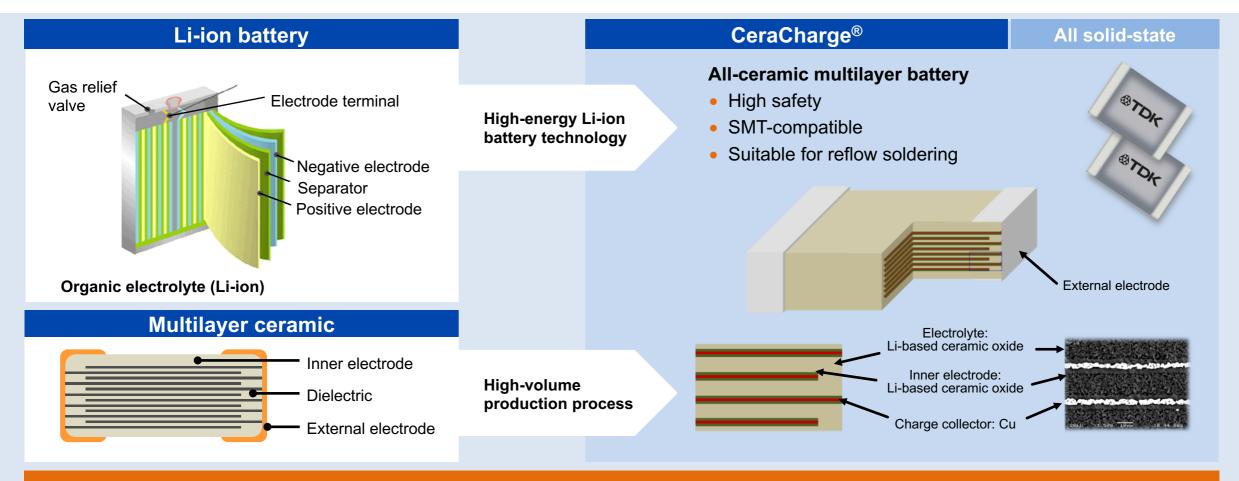


New application fields drive the demand for compact, safe, rechargeable energy sources

CeraCharge®: World's first solid-state SMT-compatible Li-ion battery





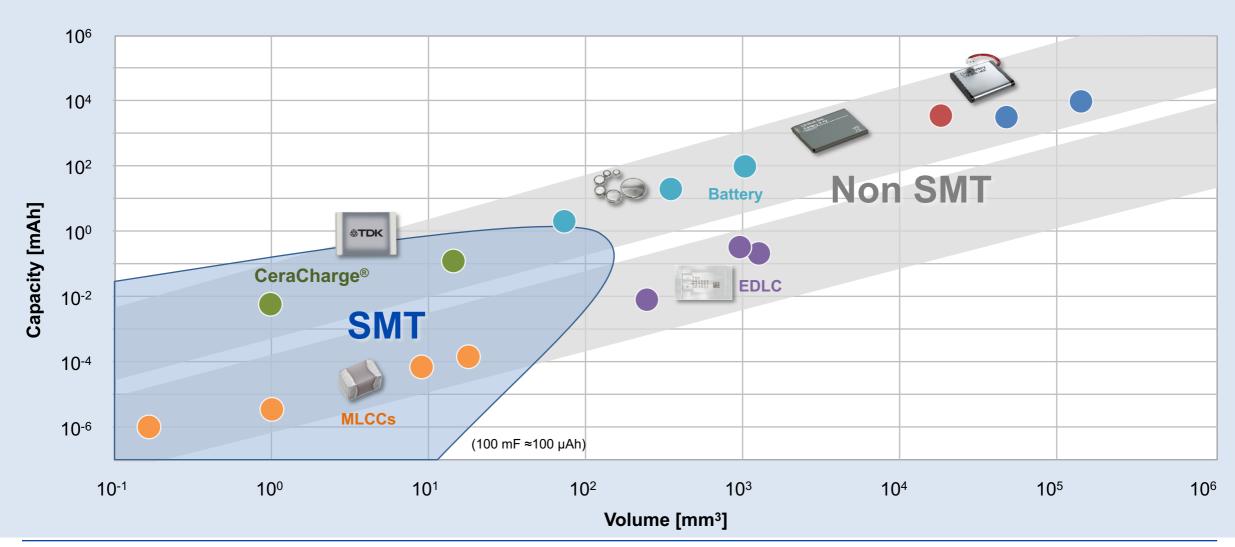


CeraCharge® combines the advantages of Li-ion batteries with the safety and manufacturing benefits of ceramic multilayer components



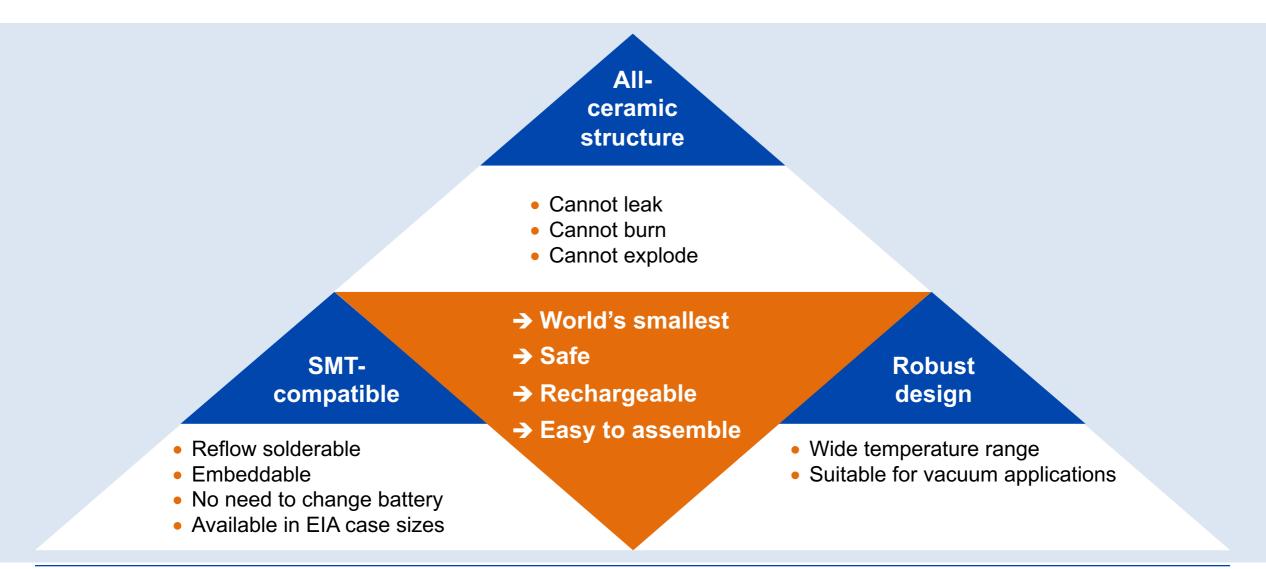


Comparison of energy storage devices





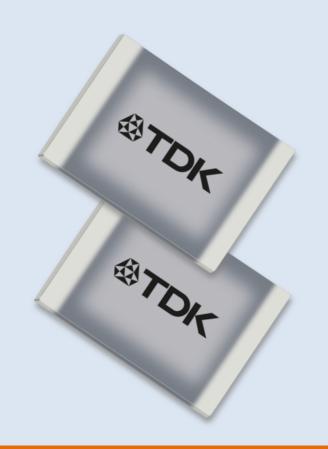
Unique features





Key figures

Size 1812		
Nominal voltage Operating voltage Nominal capacity Nominal discharge current Operating temperature	[V] [V _{op}] [µAh] [µA] [°C]	1.5 0 to 1.6 100 20 –20 to +80
Case size Dimensions	[EIA] [mm]	1812 4.4 x 3.0 x 1.1
Weight	[9]	0.04



CeraCharge® offers 1000 times the capacity of a capacitor in the same case size





Main applications

