

Application Specific Capacitors



Component Solutions

Application Specific Capacitors (ASCaps)

## Applikations-Spezifische-Kondensatoren

### Ceramic Chip Capacitors

|  |                     |  |
|--|---------------------|--|
|  | HighCap             | 1.0μF to 100μF High Cap devices in the new X7R and X5R Series are packed in 0603, 0805, 1206, 1210, 1812 case sizes with a cap range                     |
|  | HVCap               | 600V to 4KV - 1206, 1210, 1808, 1812, 1825, 2220, 2225 HV capacitors in COG and X7R are designed to meet the requirements of high voltage applications.  |
|  | SafeCap             | LS1808, LS1812, ES2211, ES2215 X2Y3, X1Y2 250VAC rated Safety capacitors are designed for safety apps. EN60950, EN132400, IEC60314-14                    |
|  | MegCap              | 3333, 3640, 4540, 5550, 7565 Large size capacitors with high capacitance and high voltage is a natural process toward combining state-of-the art techn'y |
|  | FlexiCap            | Novacap Flexicap ceramic chip capacitors were developed to provide improved resistance to the risk of mechanical stress and bending                      |
|  | GoldCap             | 0603, 0805, 1206 - PCMCIA cards, Hybrid Apps. High capacitance with gold plating is the preferred finish for conductive polymer attachment. 0402,        |
|  | HiTempCap<br>+160°C | up to +160°C Ceramic chip capacitors developed for high temperature application. Available 0805, 1206 1210, 1812, 2225 in COG and HTX+160°C Class II.    |

Abbildungen sind ähnlich. Ausschlaggebend sind die Datenblätter



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Advanced Market Concept

## Applikations-Spezifische-Kondensatoren

To meet the increasing demand for cost-effective solutions **NOVACAP** is offering a variety of high reliable parts

### Stacked Ceramic Capacitors



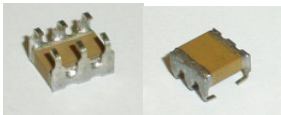
CapRack

Vertical stacked Capacitor. CapRack are characterized by high Capacitance in small volume. Footprint is greatly reduced



SuperCap

SuperCap from Novacap = very high capacitance in a small volume. Ultra low ESR, leads offer decouple the parts from the board



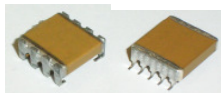
MiniStack

Preferred configuration ST1825, ST2225 J-leads allows the use of the same solder pad as SMD chip 1825, 2225.



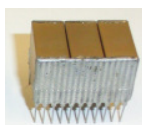
PECap

Pulse energy capacitors are designed to handle high pulse discharge application. Class I R2D dielectric is an improved option compared to COG



StackCap

Standard stacked capacitor up to 70 $\mu$ F. Voltage range 50V to 500V in X7R, COG dielectric. Available leads >J<, >L<, N< Straight



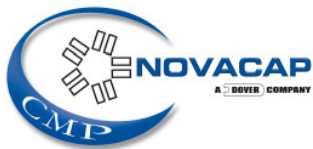
VCStack

Novacap developed a stacked capacitor based on a vertical configuration. Features: excellent performance, high voltage, high reliable

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Advanced **HiTemp** Market Concept

## Applikations-Spezifische-Kondensatoren

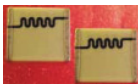
Increasing demand from OEMs for cost effective solutions for HT Application, Automotive/Avionics, HT Power Conversion, Lighting, Military, HT Remote Sensing, Emission Control, Geothermal Energy, Oil Exploration

### High Temperature (HT) up to +200 °C



**HiTempCap**  
+200 °C

+200 °C Ceramic chip capacitors developed for high temperature application. Available in COG and HTX+200 °C Class II



**HTPulseCap**  
+200 °C

+200 °C High energy capacitors designed for pulse application. Class I dielectric offers excellent short duration pulse. Typically <100ns



**HTLCap**  
+200 °C

+200 °C large size capacitors with high capacitance and high voltage. Greatest capacitance per unit. Chip, stacked, leaded available



**HTLECap**  
+160 °C / +200 °C

+160 °C / +200 °C leaded version with black + yellow epoxy coating for harsh environment and mission critical applications.



**HTMCap**  
+200 °C

+200 °C molded capacitors where isolation and protection of the capacitor is required. Operational temperature -55 °C to +200 °C



**HTXStack**  
+200 °C

Novacap developed a stacked capacitor based on a high temperature ceramic. Excellent performance compared to wet tantalum caps

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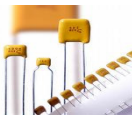
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Special Market Concept

## Applikations-Spezifische-Kondensatoren

New applications in the Industrial, Automotive and Military / Aerospace market are driving the development of special products

### Ceramic Capacitors



LDCap

Standard capacitor with lead space 5.0, 7.5mm and RM 10mm. An epoxy coating is applied to protect the capacitor chip.



LECap

These capacitor have only one basis chip. Voltage available up to 15KV in COG, X7R Dielectric. The parts are marked.



FormCap

Ceramic capacitor for special application where space requires a special configuration. Key products for successful designs



MultiCap

MultiCaps are increasingly in the mainstream of electronics. Enables the designer to use the min. space for a max.design criteria.



BoxCap

NOVACAP BoxCap is a great combination between ceramic capacitor attributes with the enhanced mechanical protection. (molded)

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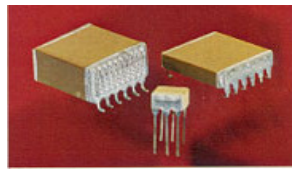


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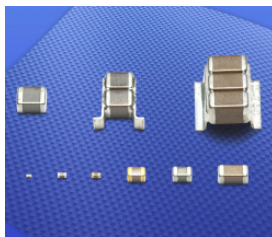
Special Market Concept

## Applikations-Spezifische-Kondensatoren

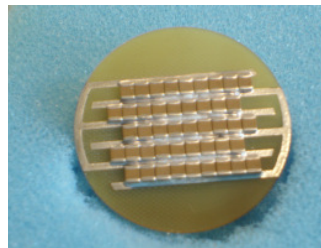
**NOVACAP** offers innovative and widest range of application specific products. Bredemeier Component Solutions offers full engineering support from component evaluation through customized designs. Use our turnkey engineering staff to develop your state-of-the-art products



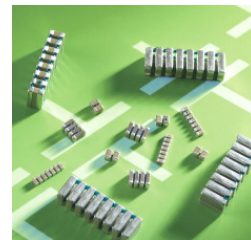
Stacked Capacitors



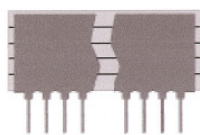
Stacked Capacitors



Multi Chip Module



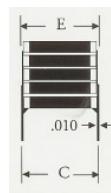
Cap Rack Solution



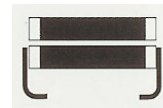
Seitenansicht



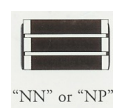
LL\_Leads



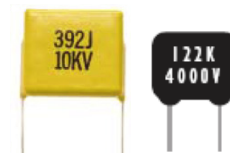
LN Leads



LJ Leads



"NN" or "NP"  
NN (MCM)  
no leads



Leads (VC)

Call for more details +49 (0)89-944 026-0



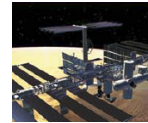
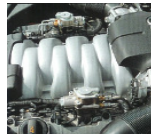
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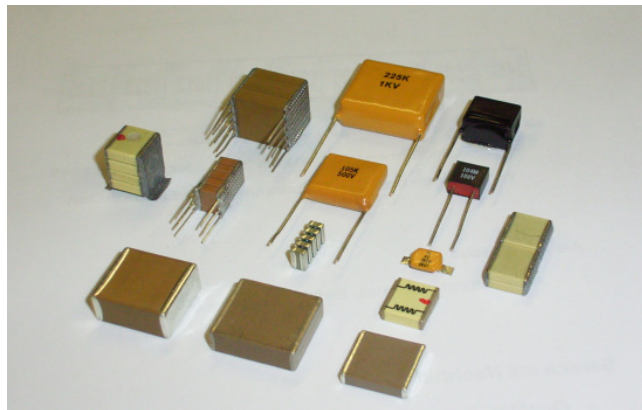
## HiRel Market Concept

Novacap offers High Reliability Testing acc. to MIL-PRF-55681, MIL-PRF-123, MIL-PRF-49467. A perfect match for a number of applications. (Industrial, Medical, Space, Military, Aerospace, Automotive, HT Electronics)



**Standard Voltage**

**High Voltage - High Temperature - High Energy**



**6.3V to 500V or 600V to 10KV**

made with a combination of design and dielectric materials

All Capacitor Configurations can be High Rel tested to achieve very high field Reliability

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