High current, compact Vacuum Capacitor

With hybrid-cooling technology

COMET
Plasma Control Technologies

Combining the most useful features of Comet's Vacuum Capacitors, along with a new special cooling technology, allows the use of high current in a compact size vacuum capacitor.

Comet hybrid-cooling technology has been developed as an extension of the well-known Hexa-Con product range. The first hybrid-cooled, small size capacitor series offers users the best of both worlds: the compact size allows the use of higher power within the same matchbox size, and users profit from reduced total cost of ownership at the same time. When comparing diameter versus power density, the Hexa-Con series with hybrid-cooling technology is best in class.

Features

- Hybrid cooling technology
- High power design
- 40% higher power density than standard product
- Small form factor
- Ultra-life drive system

The efficient cooling technology can be adopted to Hexa-Con and Maxi-Con series of Comet vacuum capacitors and modified according your needs. Thanks to the use of Comet Ultra Life drive system, trouble free operation and long lifetime is ensured. The new technology can also be combined with Comet integrated drive solutions.

Benefits

- High current
- Long lifetime
- Low torque
- Efficient use of matchbox space

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Technology with Passion

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Technical Features

Capacitance C_{max} (nominal)	250 pF
Capacitance C_{min} (nominal)	7 pF
Voltage (Peak Test U_{pt}/ Peak Working U_{pw})	25 kV/15 kV
Max. Current Imax at 13.56 MHz with Water Cooling	225 Arms 0.5 l/min
Self Inductance	≤ 5 nH
Torque	≤ 0.25 Nm

Technical features for the sample of an Hexa-Con CVHE-250BW/25-AAAN-AS

Typical application areas

- Semiconductor
- Flat Panel Display

Customized to Your Requirements

Comet has developed new vacuum capacitors utilizing hybrid-cooling technology for high current applications. Comet's new Hexa-Con vacuum capacitor is a new product adopting this technology. Talk to us about your specific requirements.

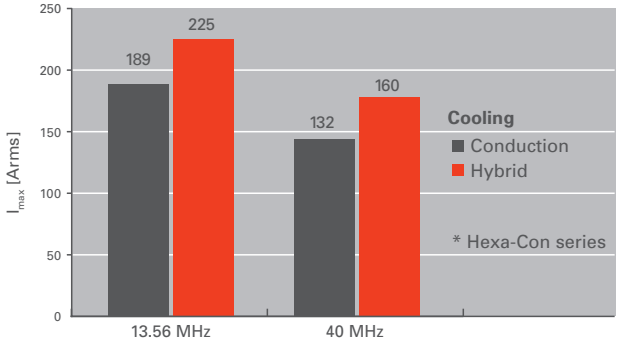
- Hybrid-cooling technology can be applied to all types of Hexa-Con and Maxi-Con series on demand
- Option: integrated drive solutions

Hexa-Con

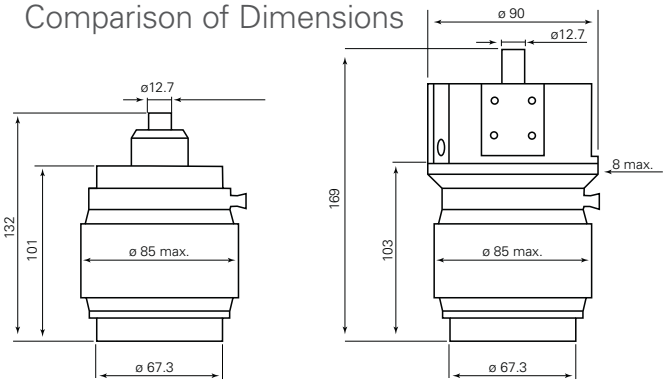
Maxi-Con

We customize for unique applications. For more information, contact your local COMET experts.

Comparison of Cooling Types*



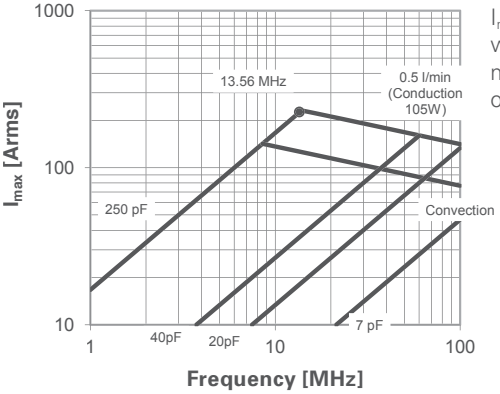
Comparison of Dimensions



Standard Hexa-Con

Hybrid-cooled Hexa-Con

Current vs. frequency and capacitance



I_{max} for 0.5l/min water cooling, max. temp. of 40° C

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Flamatt, Switzerland

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San José/CA, USA

COMET Mechanical Equipment
Shanghai, PR China

COMET Technologies
Suwon-si, Korea (South)

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Detailed technical information can be found in our data sheets and Service Bulletins: www.comet-pct.com/service-bulletins