

**Advanced capacitor portfolio range
for low frequency applications**

XtraVolt Vacuum Capacitors

The semiconductor industry is transforming: High power density in processing modules is a requirement of many RF matchbox designers. With the XtraVolt low frequency vacuum capacitor product range Comet meets these needs with higher voltage capability compared to standard products. This allows significant higher voltage in a compact size vacuum capacitor keeping the same form factor.

In high frequency application, current is mostly limited by heat dissipation while in low frequency application current is limited by maximum working voltage. The new XtraVolt low frequency vacuum capacitors with higher field strength capability can achieve higher voltage. This allows increased RF current capability and higher power density.

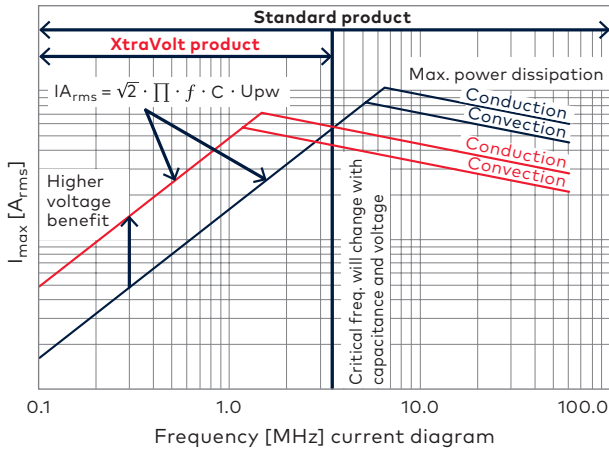
The XtraVolt low frequency product line – recommended for frequencies below 4 MHz – makes you benefit from the high-power design and increases power density by more than 40%.

The XtraVolt technology is applicable to most of the existing capacitor series.

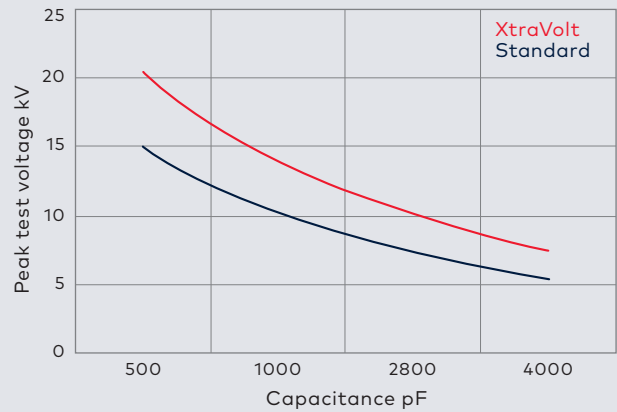
Benefits

- 20 to 100% increased voltage (below 4 MHz), depending on vacuum capacitor types
- High power density
- Efficient use of matchbox space
- Increased design flexibility for your RF match architecture
- Higher voltage & higher current in standard size capacitor
- Same voltage specification in smaller size capacitor

XtraVolt product range versus standard product range

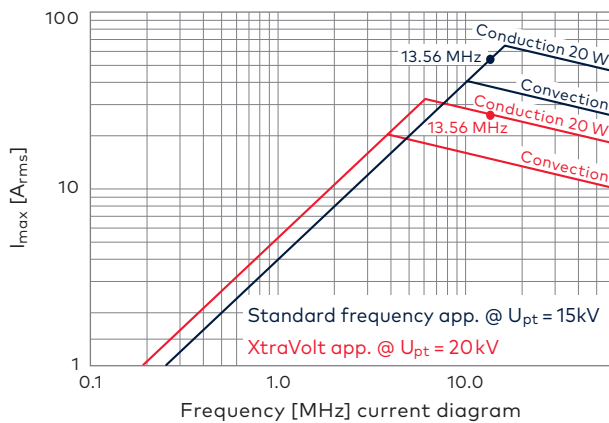


Comparison of XtraVolt and standard types for Mini-Cap, Uni-Con and Hexa-Con series



Current curve of a XtraVolt Mini-Cap

CFMN-100*AC/15-AE-G Standard product
CFMN-100HAC/20-AE-G LF



Comparison of technical features of standard and XtraVolt products

	Mini-Cap Standard CFMN-100*AC/ 15-AE-G	Mini-Cap XtraVolt CFMN-100HAC/ 20-AE-G
Peak test voltage U_{pt}	15 U_{pt}	20 U_{pt}
Max. Current at 2 MHz	8 A_{rms}	11 A_{rms}

Available series

Fixed, Trimmer and Variable Vacuum Capacitors are available, e.g. Mini-Cap, Mini-Tune, Uni-Con, Hexa-Con and Maxi-Con series. Others on request. We customize for unique applications. For more information, contact your local Comet experts.

Switzerland (Head Office)

Comet AG
Flamatt

Germany

YXLON International GmbH
Aachen

United States

Comet Technologies USA Inc.
San Jose/CA

China

Comet Mechanical
Equipment Co. Ltd., Shanghai

Korea (South)

Comet Technologies
Korea Co., Ltd., Suwon-si

Malaysia

Comet Technologies
Malaysia Sdn Bhd, Penang

Taiwan

Comet Solutions Taiwan Ltd.
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Technical information can be found in our data sheets and Service Bulletins:
pct.comet.tech/service-bulletins