

BUILT TO WIN
VISHAY EVERYDAY

AMERICAS SALES CONFERENCE

High Voltage Ceramic Capacitors

March 2026



The DNA of tech.®

“Ceramic single layer capacitors are an underestimated growth engine – and Vishay is leading the way.”



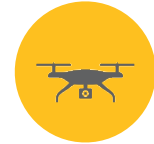
- Your CC Caddies:
Dr. Florian Weyland – Germany
Davut Akcadag – Germany
William Sun - Germany

Revival of High Voltage Caps

Grid Connection



Drone Defense



Industrial Automation



xEV Power Electronics



10–30 kV_{DC}



10–30 kV_{DC}



10–100 kV_{DC}



300–500 V_{AC}



300–500 V_{AC}



50–6000 V_{DC}

Where to Play!



The DNA of tech.®



The DNA of tech.

Made in Germany - 715C Series



Laser

DEW (Directed Energy Weapon)

Fusion Energy

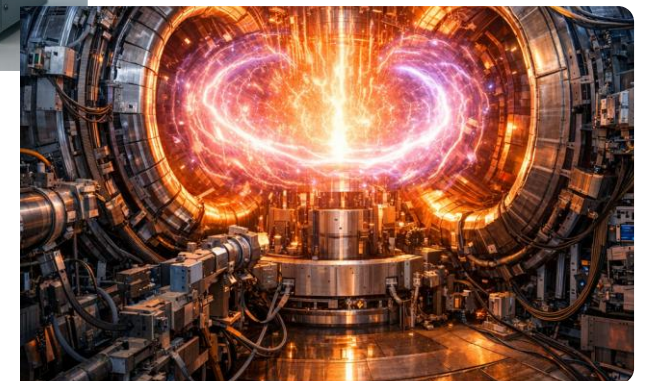
Medium Voltage Drives

HV Power Supply / X-Ray

VLF cable testing

Medium Voltage Grid Sensing

High Voltage Protection





The DNA of tech.

The CRAB Approach

HOW TO SELL: Sell the Solution, not only component



Customization

“Let’s adapt the capacitor to your application - not the other way around.”

Reliability

“Reduce field failures. Increase lifetime confidence.”

Application Focus

“We understand your voltage, environment, and reliability challenges.”

Built for High Voltage

“This is not a fragile component - it’s power hardware.”

Made in Germany - 715C Series

Advancing the opportunity

"When your high-voltage design demands precision, reliability, and flexibility—Vishay's 715C deliver."

Capacity Investment

- ✓ Increased capacity by 50%
- ✓ Closely working with customer
- ✓ Only manufacturer that offers customized items and can scale quantities



Features

- ✓ 10 – 100 kVDC
- ✓ Up to 10nF
- ✓ Class 1 and Class 2 ceramic available
- ✓ Different mounting variations

Our Advantages

- ✓ Highest level of customization
 - ✓ Different epoxy coatings
 - ✓ Various terminals
 - ✓ Axial type possible
- ✓ Engineered in Germany

715 (class 1)
715 (class 2)

PROMOTION MATERIAL (HYPERLINKS)

[Datasheet - 715 \(class1\)](#)

[Datasheet - 715 \(class 2\)](#)

[Infographic](#)

[Did You Know?](#)

[Customs & Capabilities](#)

[Selector Guide](#)

[3D Models](#)

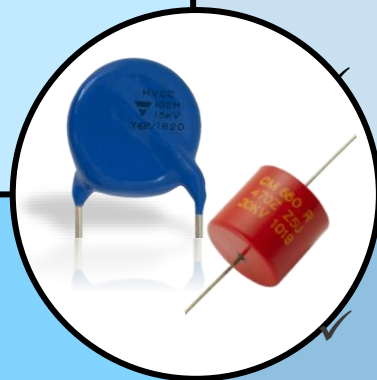
Made with Care – HVCC and 660R Series

Advancing the opportunity

"When your high-voltage design demands precision, reliability, and flexibility—Vishay's 660R and HVCC deliver."

Why it matters!

- ✓ Specially designed
- ✓ Power supply for X-ray sources
 - ✓ Medical equipment
 - ✓ Baggage scanner
 - ✓ Industrial equipment
- ✓ Air Purifier



Features

- ✓ 10 – 30 kVdc
- ✓ 100pF – 2nF
- ✓ High reliability
- ✓ Guaranteed load life performance
1.25 Ur @105 °C for 1000 h

Our Advantages

- ✓ New production line
- ✓ Proven quality advantage against competition
- ✓ 660R and 615R are produced in EU
- ✓ Released at Tech Leaders

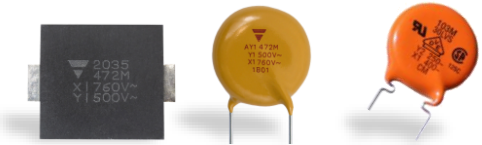
HVCC 660R
PROMOTION MATERIAL (HYPERLINKS)
Datasheet - HVCC
Datasheet - HVCC class 1
Datasheet - 660R
Infographic
Did You Know?
Why it matters
Customs & Capabilities
Selector Guide
3D Models



The DNA of tech:

- On-Board Charger
- E-compressor
- Traction inverter
- HVCH (resistive heater)
- DC/DC
- BMS
- Power Supplies
- Smart Meters
- LED driver
- White Goods
- Welding
- Solar Inverter

Made to Serve – EMI Filter Safety Caps

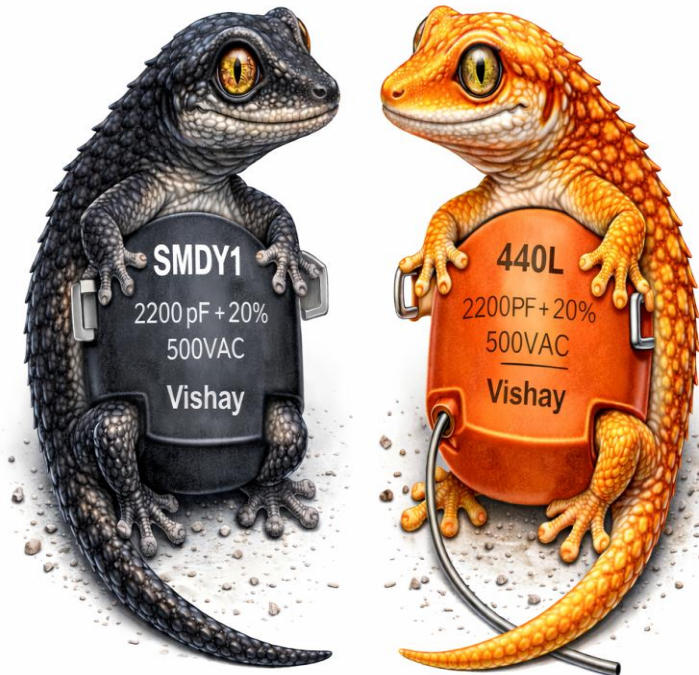




The DNA of tech.

The GECKO Approach

HOW TO SELL: Sell the Solution, not only component



Greatest Portfolio Breadth

“We deliver certified safety - with the widest portfolio in the market.”

Established Safety Compliance

“We secure your design with proven X/Y safety solutions.”

Confidence in Critical Applications

“In safety-critical platforms, reliability isn’t optional - it’s engineered.”

Key Manufacturing Strength

“European production you can rely on.”

Ongoing Innovation & Support

“Innovation that keeps your platform future-ready.”

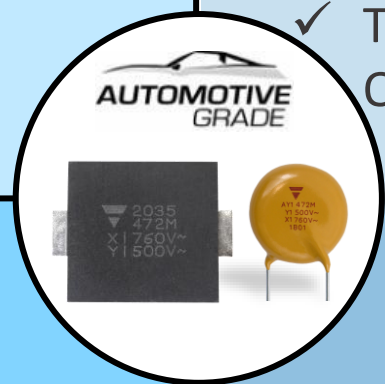
Made to be First – SMDY1*A Series

Advancing the opportunity

"We understand your safety, qualification, and lifetime challenges. "

Why it matters!

- ✓ Increased capacity by 60%
- ✓ Ceramic Mass is produced in Germany
- ✓ Technically exceeding AEC-Q200 requirements



Features

- ✓ AEC-Q200 qualified
- ✓ Complying with IEC60384-14
- ✓ SMDY1*A and AY1: X1/Y1 with 470pF - 4.7nF
- ✓ AY2: X1/Y2 with 10pF - 10nF
- ✓ IATF16949 certified
- ✓ PPAP available

Our Advantages

- SMDY1*A: First Y1 500VAC in SMD
- ✓ AY2: 3.000 temperature cycles
 - ✓ AY1: only Y1 rated automotive ceramic safety capacitor



SMDY1*A
AY1 / AY2

PROMOTION MATERIAL (HYPERLINKS)

[Datasheet - SMDY1*A](#)

[Datasheet - AY1](#)

[Datasheet - AY2](#)

[Infographic](#)

[Decision Tree](#)

[Checklist](#)

[Customs & Capabilities](#)

[Selector Guide](#)

[3D Models](#)

[Spice Models](#)

Made to Serve – EMI Filter Safety Caps

Advancing the opportunity

"We understand your safety, qualification, and lifetime challenges. "

Why it matters!



Czech Republic

CeraMite parts are produced in EU – only limited supplier for non greater CN



Features

- ✓ Widest Product Portfolio
- ✓ Complying with IEC60384-14
- ✓ VY1: X1/Y1 with 470pF - 4.7nF
- ✓ VY2: X1/Y2 with 10pF - 10nF
- ✓ 440L: up to 20nF

Our Advantages

- ✓ Production in EU
- ✓ Service and Flexibility
- ✓ 440L: 10nF and 20nF
- ✓ New Product Launches



VY1 / VY1*C / 440L / VY2

PROMOTION MATERIAL (HYPERLINKS)

[Datasheet - VY1](#)

[Datasheet - VY1*C](#)

[Datasheet - 440L](#)

[Datasheet - VY2](#)

[Infographic](#)

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*Partner with Vishay – or
miss out on growth.*



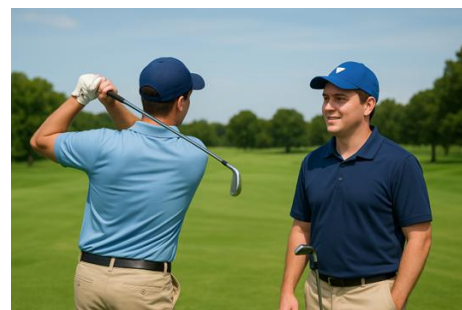
The DNA of tech.®

The Playbook

LASER, Drone Defense, Medium Voltage Drive, Grid Sensing, Grid Protection, X-ray, HV power, xEV, Power Supplies, EMI Filtering

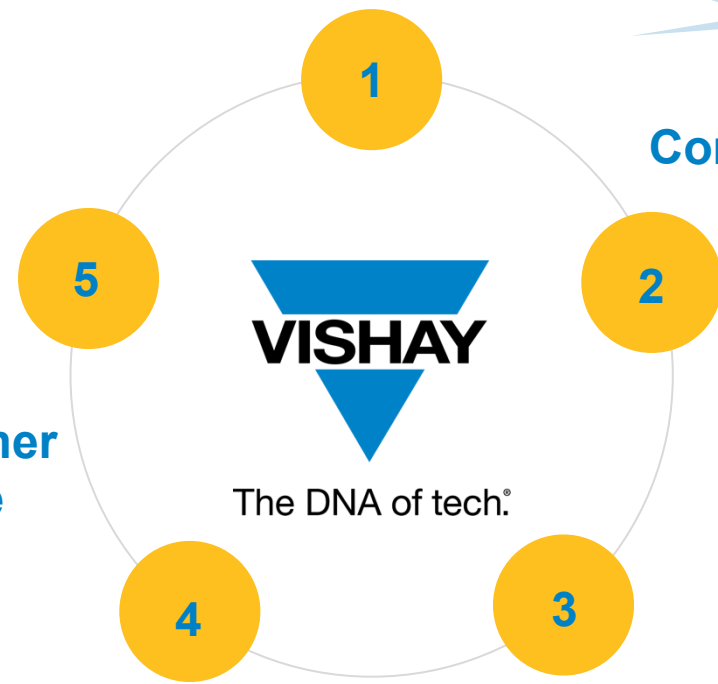
Watch out for High Voltage Opportunities!

Contact your CC Caddies for support!

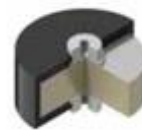


Enable the customer to realize design – Enjoy the business

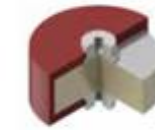
Work with customer to release (maybe several attempts needed)



R&D will provide a solution



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AMERICAS SALES CONFERENCE

We are investing,
we are winning,
and together we will capture the market.

