



# Product Overview



## About MGT

The brand name **MGT** was established in 2010 in London, UK as a holding company and stands for:

**"Manufacturer Group of Technology"**

Due to our high expertise in the electronic market, we give manufacturers an infrastructure for their business with the Brand name "**MGT**" and help them to sell their products in EMEA under one roof. This enables our manufacturers to enhance on their service quality and reduce administrative time for them. We believe that this is a better way to add value to the supply chain and help to optimize the focus for our manufacturers on their products.

To support our global customers, we have our overseas Headquarters based in London, UK and Taipei, Taiwan. Our distribution network covers all major markets with stock, logistics and technical supports.

In Taipei, we are in the heart of Taiwan's Electronic industry and present our portfolio with the best and most innovative products.



London ▲ UK



Taipei ▲ Taiwan



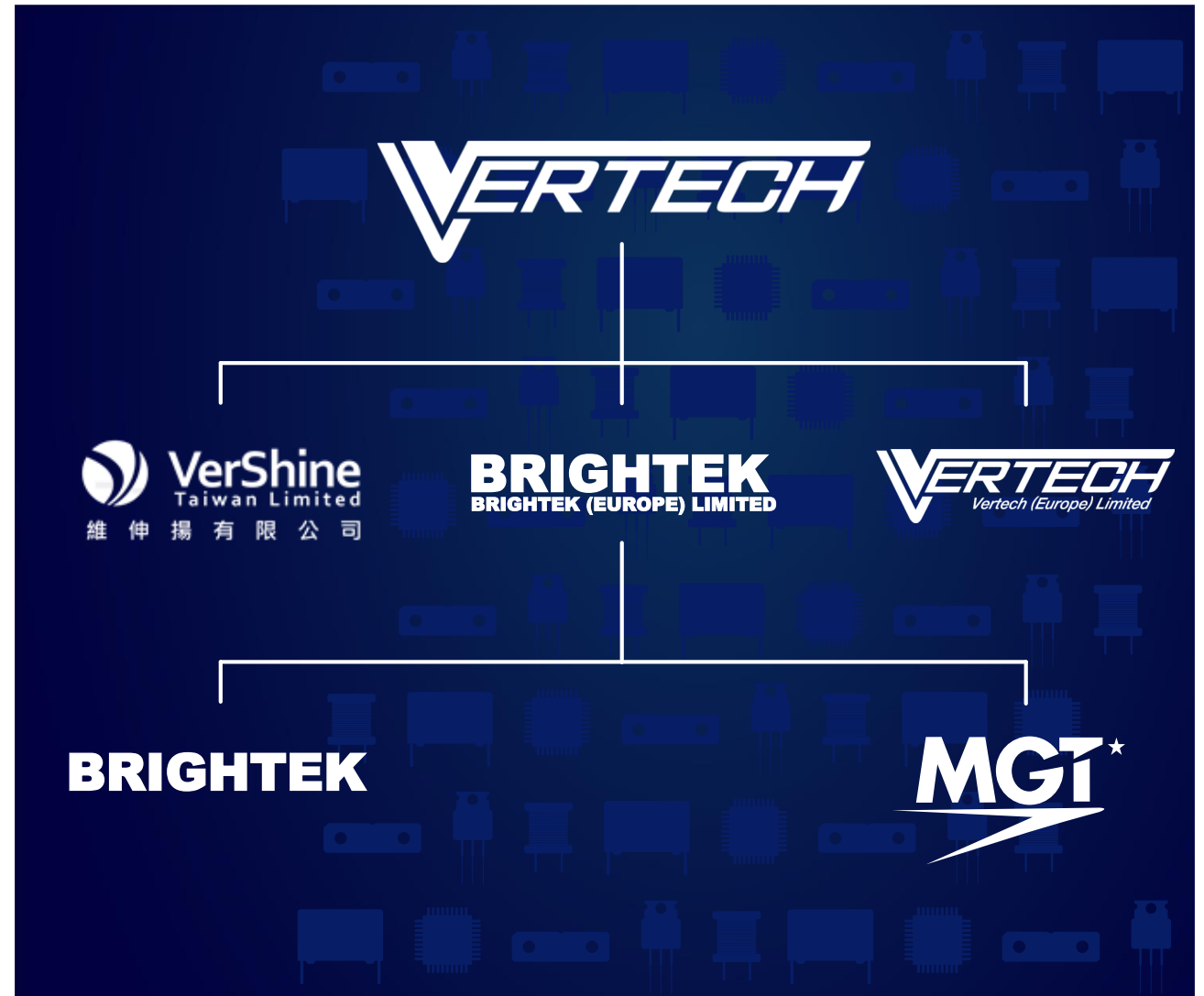
## Group Profile

**MGT** is part of the UK based Vertech Group, which have been serving electronic industry on global scale since 1999. To meet the growing demand of the customers, we have structured our services into the following brands:

**Vertech** (Europe) Limited: A dedicated company with brand name "Vertech" for full range of Printed Circuit Board (PCB). established in 1999 with headquarters in London.

**Brightek** (Europe) Limited: is a dedicated company with brand name "Brightek" for LED, LCD, Photocoupler and all related Optoelectronic products. established in 2006 with headquarters in London, UK.

**MGT** is trading under the legal entity of Brightek (Europe) Limited, **MGT** works with selected leading manufacturers from each field and covers the widest range of electronic product from Semiconductor, Capacitor, Resistor and ever growing portfolio. Our headquarters is located at Canary Wharf, London.



# Distributor

## Network

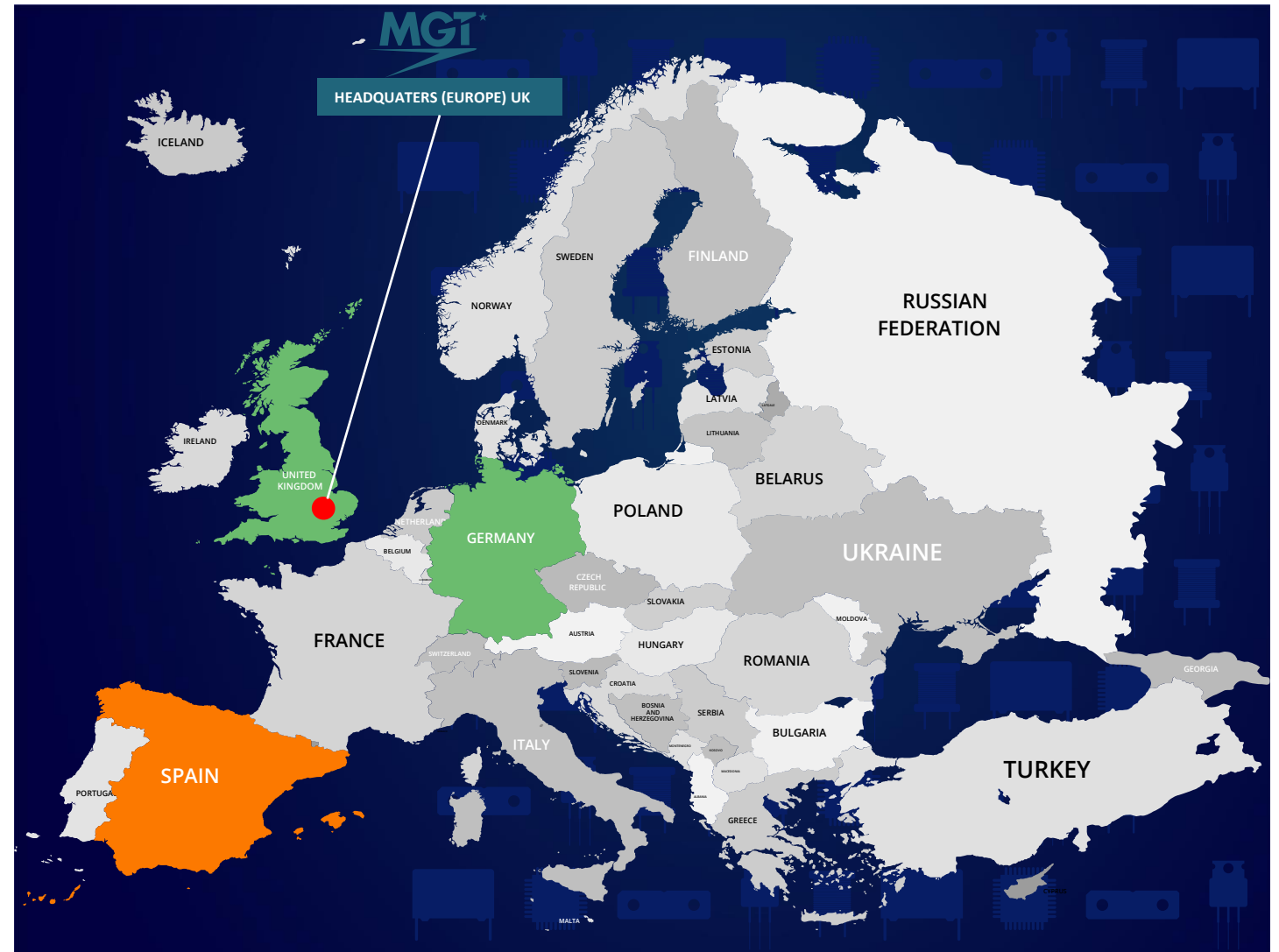


## EUROPE

- Austria
- Belgium
- Bosnia & Herzegovina
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Hungary
- Italy
- Lithuania
- Netherlands
- Poland
- Portugal
- Romania
- Serbia
- Slovenia
- Spain
- Swiss
- Turkey
- United Kingdom

## OTHER

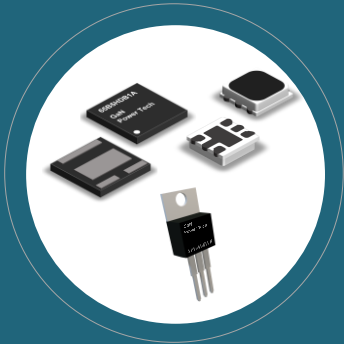
- China
- Israel
- India
- Korea
- Taiwan
- United Arab Emirates
- USA



# Product Overview

## Semiconductors & Passives

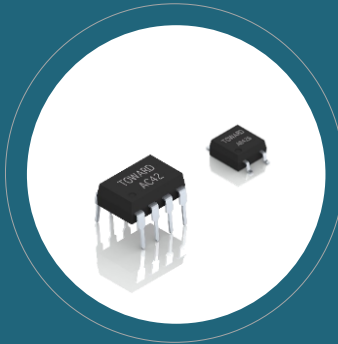
# Product Overview



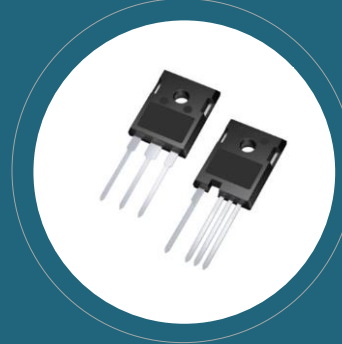
GaN FETs & JFETs



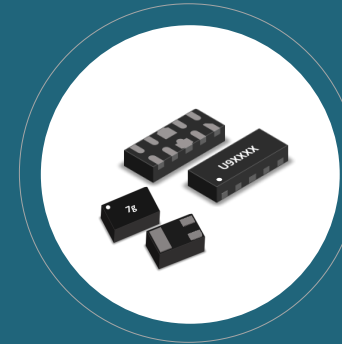
GaN Wafer



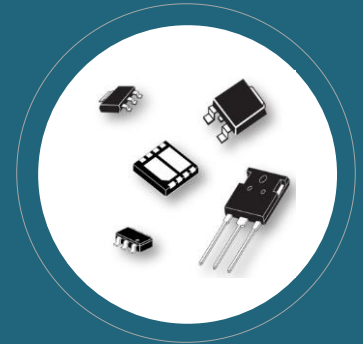
SiC MOSFET Relays



SiC MOSFETs



TVS Arrays & Diodes



SI MOSFETs



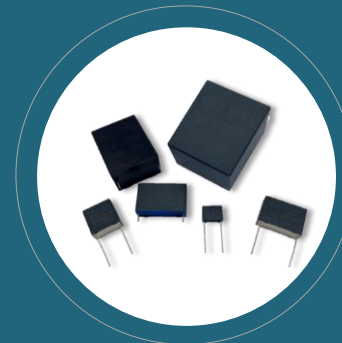
Stacked Aluminum  
Polymer Capacitors



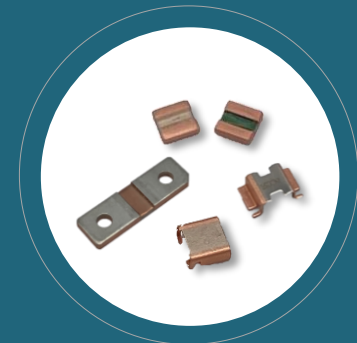
Aluminum Solid  
Polymer Capacitors



Hybrid Aluminum  
Electrolytic Capacitors



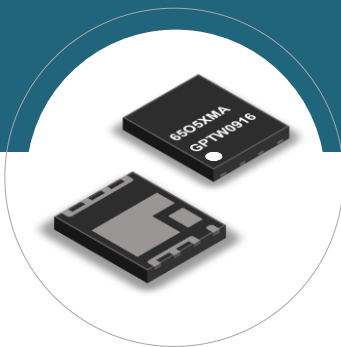
Film Capacitors



Shunt Resistors

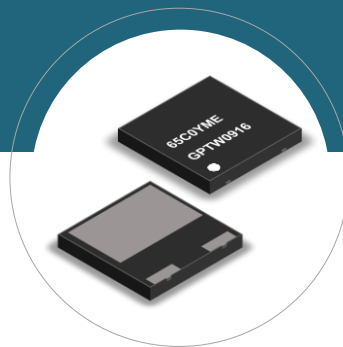
## GaN FET

- Normally off device
- Small size in 5mm x 6mm ▲ DFN5060 package
- Ultra-low QRR and very robust design



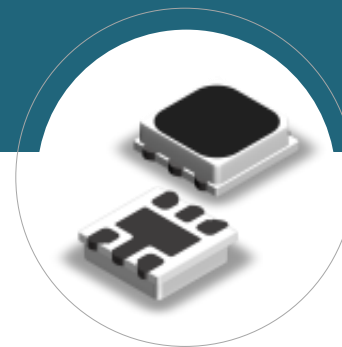
## GaN FET

- Normally off device
- Small size in 8mm x 8mm ▲ DFN8080 package
- Ultra-low QRR and very robust design



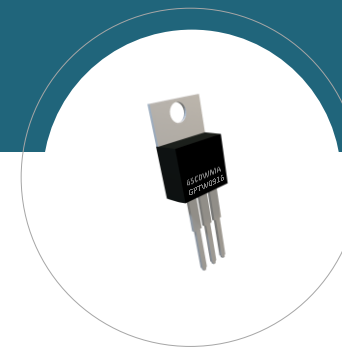
## GaN JFET

- Normally on device
- Small size ▲ PLCC3535 package
- Perfect as constant current source



## GaN FET

- Normally off device
- TO-220 package
- Ultra-low QRR and robust design



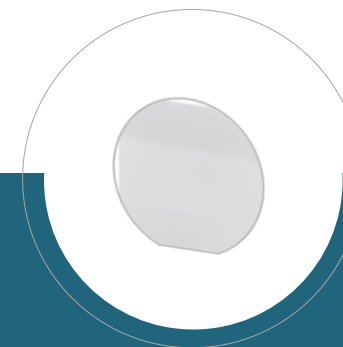
# GaN FETs & JFETs

Semiconductors



EPI Wafer on Si-Sub

- GALLIUM NITRIDE GaN on SiC EPI-WAFERS



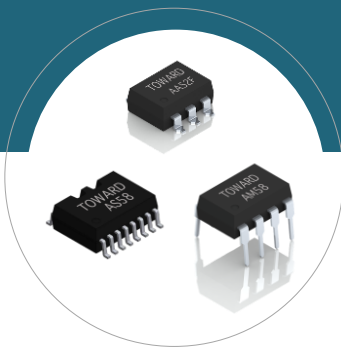
EPI-Wafers on SiC -Sub

- GALLIUM NITRIDE GaN on Si EPI-WAFERS



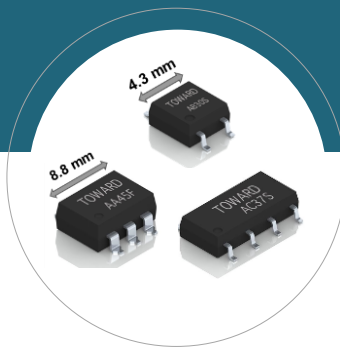
## SiC Opto MOS Relay

- High Load Voltage from 1700V to 3300V
- DIP 6-5 | 8-6 and SMD 6-5 | 8-6 Package



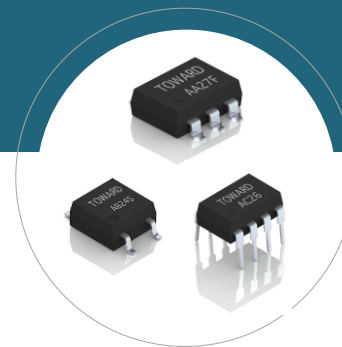
## General Purpose Opto MOS Relay

- Load Voltage from 40V to 1500V
- Load Current from 45mA to 7 A
- Small size package



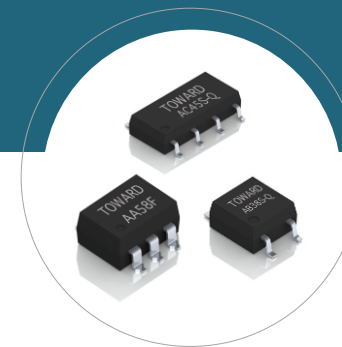
## High Load Current Opto MOS Relay

- Load Voltage from 40V to 80V
- Load Current from 1.2A to 7 A
- Small size package



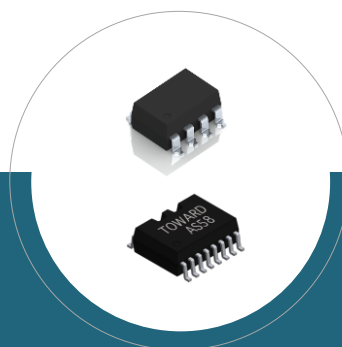
## Automotive Opto MOS Relay

- Load Voltage from 60V to 1800V
- Load Current from 70mA to 1.25A
- Small size package



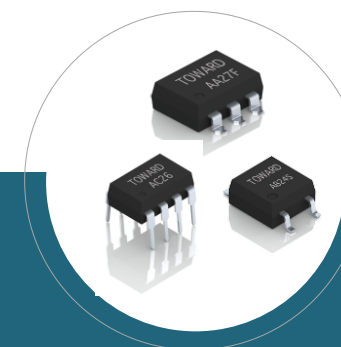
# Opto MOSFET Relays

Semiconductors



## SiC Opto MOS Relay

- High Load Voltage 6600 V / 330mA
- Under development coming soon!

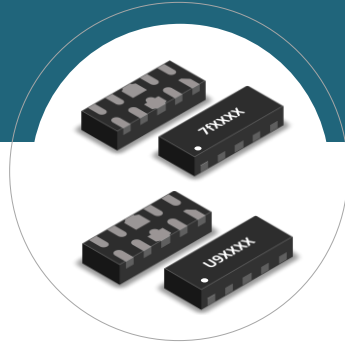


## Low Leakage Current OPTO MOS Relay

- Low Leakage Current (<1nA)
- Low C\*R
- Normally Closed
- Multi-Channel

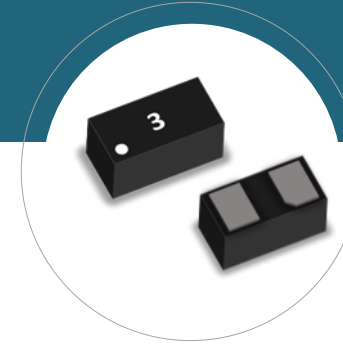
#### 4-Channel TVS Array

- ESD Protection for high-speed data lines
- DFN 2510-10L package
- ESD Rating up to 15kV
- AEC-Q101 qualified



#### Bi-Directional TVS Diode

- ESD Protection for line
- DFN 0603-2L package
- ESD Rating up to 15kV
- AEC-Q101 qualified



## TVS Arrays & Diodes

### Semiconductors



#### Bi-Directional TVS Diode

- ESD Protection for line
- DFN 0603-2L and DFN 1006-3L package
- ESD Rating up to 30kV
- AEC-Q101 qualified

## 2-Terminal Metal Shunts

- SMD type – MCSS / MCSSA Series
- Small size from 1206 up to 5930
- Excellent long term stability
- AEC-Q200



## 2-Terminal Metal Shunt

- FeCrAl Material
- Small size 4512
- High Power rating up to 8W
- AEC-Q200



## 2-Terminal Metal Shunts

- SMD type – MCSS / MCSSA Series
- Small size from 1206 up to 5930
- Excellent long term stability
- AEC-Q200



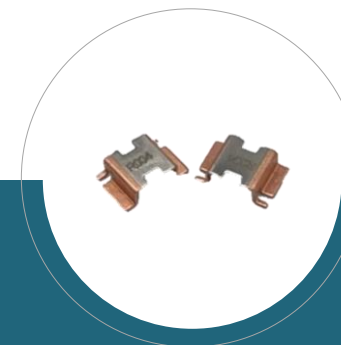
# Current Metal Shunt Resistors

Passives



## Flat type Metal Shunt

- Package 5216
- Ultra-low resistance up to 0.05mΩ
- Customized version possible
- AEC-Q200



## 4-Terminal Metal Shunt

- 4-terminal design
- Package 2725 ▲ 4026
- Sulfur resistant construction
- AEC-Q200

### Hybrid Aluminum Electrolytic Capacitor

- 105C and 125C ▲ 10000h and 4000h
- Capacity 22uF to 470uF
- Voltage from 25V to 80V
- Low leakage and self-healing of dielectric layer



### Solid Electrolytic Aluminum Capacitor

- 105C and 125C ▲ 2000h and 1000h
- Capacity 10uF to 2500uF
- Voltage from 2.5V to 100V
- No electrolyte
- No dry-out effect



## Polymer Capacitors

### Passives



### Stacked Solid Electrolytic Capacitor

- 105C and 125C ▲ 5000h and 2000h
- Capacity 22uF to 470uF
- Voltage from 1.6V to 25V
- Ultra low ESR 4.5mΩ and low height with 1.9mm

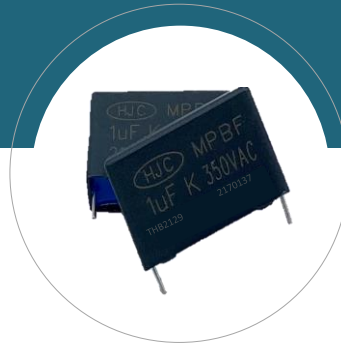
### DC Link Capacitors

- 1uF to 60uF
- 700V<sub>DC</sub> to 1100V<sub>DC</sub>
- THB 85C/85%RH 1000h tested



### AC Filter Capacitors

- 1uF to 40uF
- 250V<sub>AC</sub> to 350V<sub>AC</sub>
- THB 85C/85%RH 1000h tested



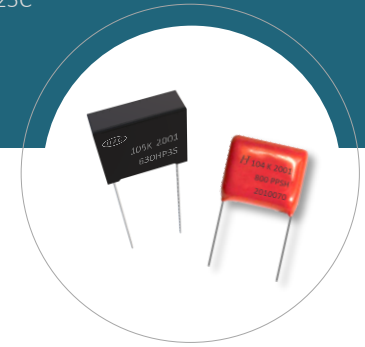
### Snubber Capacitor

- 0.1uF to 2.5uF
- 850V<sub>DC</sub> to 2000V<sub>DC</sub>
- Internal series connection



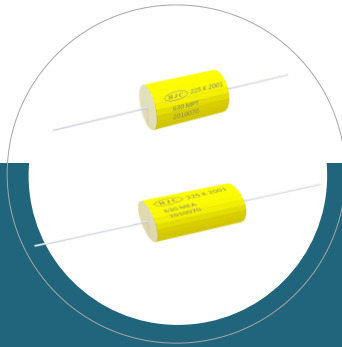
### Pulse & High Pulse Capacitor

- 0.0010.1uFuF to 1.5uF
- 400V<sub>DC</sub> to 2000V<sub>DC</sub>
- Ultra high dV/dt up to 30kV/μs
- Available in 125C



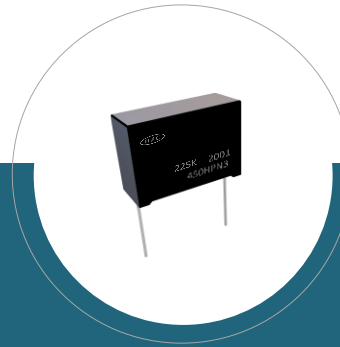
## Film Capacitors

### Passive



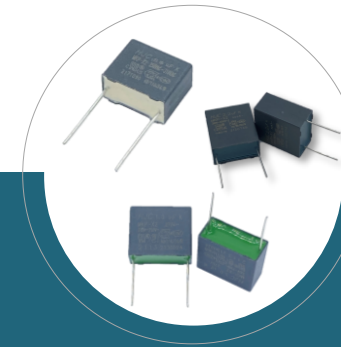
### Axial & Flat Axial Capacitors

- 0.01uFuF to 10uF
- 100V<sub>DC</sub> to 630V<sub>DC</sub>
- For high critical applications
- Low dissipation factor



### PFC Capacitors

- 0.022uFuF to 2.2uF
- 450V<sub>DC</sub> to 630V<sub>DC</sub>
- For high critical applications
- Available in 125C



### RFI Capacitors

- 0.022uFuF to 2.2uF
- 450V<sub>DC</sub> to 630V<sub>DC</sub>
- For high critical applications
- Available in 125C

# CONTACT US



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