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# ELECTRONIC

ELECTRONIC COMPONENTS AND THERMAL PROTECTION

## RELIABILITY, INNOVATION, QUALITY, INTEGRITY

### A MODERN PARTNER IN ELECTRONIC AND ELECTROMECHANICAL COMPONENTS

Omega is a leader in the distribution and production of electronic and electromechanical components, offering dedicated services to support and strengthen customer relationships.

Today, Omega is an international group in steady growth, with branches across Europe and a structured plan for further expansion. It positions itself as a modern, reliable partner for the distribution of electrical and electromechanical components.

## OUR PARTNERS: AN ADDED VALUE

### CHOSEN THROUGH YEARS OF EXPERIENCE, OUR PARTNERS ENSURE THE HIGHEST STANDARDS.

With a strong presence across Mediterranean Europe, Omega covers all major markets and application areas, maintaining a direct and constant relationship with its customers - always focused on maximum efficiency.

IDEC · APEM an IDEC company · mec switches
EATON Bussmann · THERMODISC · bel POWER | PROTECT | CONNECT
FUZETEC · bulgin · ADELS contact
IEC LOCK by Scolmore · ODU · COSEL
DURACELL · ETI · Lumberg
JOHNSON ELECTRIC · ROTEK · Mellor · Hetai
GGM · EDK · HERGA
RISUN · PELKO Motors · KAKU
Littelfuse Expertise Applied | Answers Delivered · min-tec · EFEN

## CYLINDRICAL FUSES

### 5X20MM

Fast, extra-quick or time-delay
Glass or ceramic
From 32mA to 25A
Available with Agency Approvals

### 6,3X32MM

Fast, extra-quick or time-delay
Glass or ceramic
From 50mA to 30A
Available with Agency Approvals

### 6,3X25,4MM FUSES FOR ENGLISH PLUGS

Fast - Ceramic - 240V
From 1A to 13 A
Available with Agency Approvals

### BOX FUSES

Time-delay - faston 6,3mm or PCB
From 50mA to 30A
Available with Agency Approvals

## PCB FUSES

### SMD FUSES

Fast or time-delay
From 1,6x0,8mm to 13x5mm
Up to 600VDC - Up to 200A
Available with Agency Approvals

### RADIAL FUSES

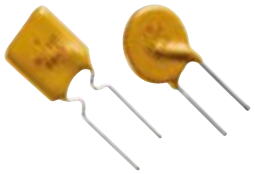
Fast or time-delay
Rectangular or cylindrical body size
Up to 300V
Available with Agency Approvals

### CYLINDRICAL MICRO FUSES

Fast or time-delay - 250V
Glass and ceramic
Available with Agency Approvals

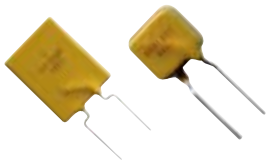
## RESETTABLE FUSES - POLYTRON

### LOW VOLTAGE RADIAL LEADED TERMINALS



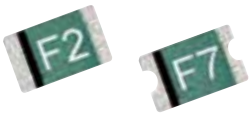
From 50mA to 15A
Operating Voltage up to 120V
Industrial or Automotive version
Available with Agency Approvals

### HIGH VOLTAGE RADIAL LEADED TERMINALS



From 50mA to 2A
Operating Voltage up to 277V
Industrial or Automotive version
Available with Agency Approvals

### SMD




Sizes: 0201, 0402, 0603, 0805, 1206, 1210, 1812, 2016, 2920
From 50mA to 3A
From 6V to 240V
Industrial or Automotive version
Available with Agency Approvals

### AXIAL LEADED TERMINALS

From 700mA to 7,3A
From 6V to 30V
Industrial or Automotive version
Available with Agency Approvals

## AUTOMOTIVE

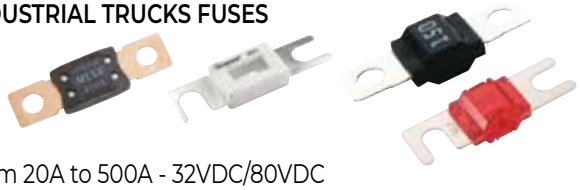
### CONICAL AUTO FUSES

6x25mm - 32V
From 5A to 40A

### BLADE FUSES

Sizes: MINI, ATOF, MAXI
32V, 36V, 58V - From 1A to 80A
Fast or time-delay
Available with Agency Approvals

### INDUSTRIAL TRUCKS FUSES



From 20A to 500A - 32VDC/80VDC
Pitch 30mm and 50,8mm

### FUSEHOLDERS

For MINI, ATOF, MIDI, MAXI and MEGA fuses
Also with IP grade

### ZCASE

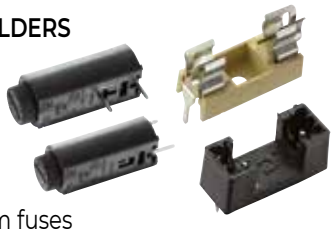
From 125A to 600A - 32V
Temperature range: -40°C+125°C

### PCB FUSEHOLDERS

Up to 125V
Available with different mounting styles

## FUSE HOLDERS

### PCB MOUNTING FUSE HOLDERS



For 5x20mm and 6,3x32mm fuses
6,3A, 10A, 12A, 16A
Up to 300V
Available with Agency Approvals

### BASE MOUNTING FUSE HOLDERS

For 5x20mm and 6,3x32mm fuses
6,3A, 15A or 30A
Up to 300V
Available with Agency Approvals

### PANEL MOUNTING FUSE HOLDERS

For 5x20mm, 6,3x32mm and 10x38mm fuses
Up to 250V
Available with Agency Approvals

### IN-LINE FUSE HOLDERS

For 5x20mm, 6,3x32mm
Up to 250V
Available with Agency Approvals

### TERMINAL BLOCKS

10A - 400V or 16A - 500V
With integrated fuseholder
Modular blocks

### ACCESSORIES

Transparent or colored caps (beige, black, red or blue)
UL94-V0 black protection

## CLIPS AND SMALL METAL PARTS

### FUSE CAPS AND FUSE CLIPS

For 5x20mm, 6,3x32mm and 10x38mm and blade fuses
Available also with reel packaging

### PCB TERMINALS

Sizes: 2,8mm, 4,8mm and 6,3mm
Vertical and horizontal

### DOUBLE AND SINGLE CONTACTS

Tinned brass - 0,8mm
Horizontal, vertical or 45° types

### AXIAL LEADS

For 5x20mm and 6,3x32mm fuses

## OVERVOLTAGE PROTECTIONS

### ESD

- Sizes: 0201, 0402, 0603
- Ultra low capacitance (0,05pF)
- Very fast response time (1ns)
- AECQ available

### TVS

- Available in industry-standard case sizes
- Up to 450VDC
- Both radial and SMD (SMA/SMB/SMC)
- High power family available
- AECQ available

### MOV VARISTORS

- VAC from 11V to 1000V
- VDC from 14V to 1465V
- From ø5mm to ø20mm

## MAGNETICS

### SMD HIGH CURRENT INDUCTORS

- High power density
- Ferrite, powder or composite core
- High operating temperature - EMI shielding
- Available in small form factors
- Available with AECQ certification

### SHIELDED POWER INDUCTORS

- Wide range of sizes and shapes
- Ferrite core (high efficiency)
- Available with AECQ certification

### SEMI SHIELDED INDUCTORS

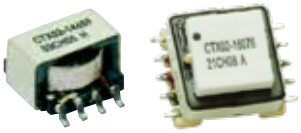
- Commercial and automotive grade
- High current carrying capacity
- Inductance range from 0,33µH to 1mH
- Standard footprints from 2mm to 8mm

### COMMON MODE CHOKES

- THT and SMT configurations
- Footprint from 7 to 29mm
- Up to 15A
- High voltage isolation up to 1500VAC

## TRANSFORMERS

### VERSAPAC



Up to 70W - 500V isolation
Wide range of inductance and current

### POWER OVER ETHERNET (POE)

Input voltage up to 60V
Up to 156W - 1500V isolation

## CAPACITORS

### COIN CELLS SUPERCAPS

0,1F to 1,5F
Up to 5V
Horizontal, vertical or cylindrical mounting configuration

### SMALL CYLINDRICAL SUPERCAPS

0,22F to 110F
From 2.5V to 6V
Operating life up to 20 years
Available with Agency Approvals

### LARGE CELLS SUPERCAPS

275F to 3400F
Up to 3V
Ultra low DC ESR for highest efficiency and power

### HYBRID SUPERCAPS

10F to 1400F
Up to 10 times energy density
Low self discharge ideal for use with batteries

### DC LINK CAPACITORS

Capacitance range 1µF to 200µF
Voltage range: 450-1200 VDC
High ripple current

### HYBRID ALUMINUM CONDUCTIVE POLIMER

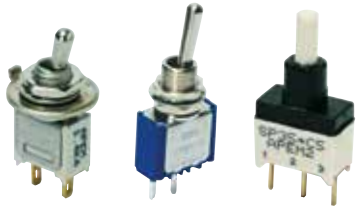
Capacitance range: 10 µF to 820 µF
From 16V to 80V
Temperature range: up to 135°C
AECQ200 certified - SMD packages

### SUPERCAP MODULES

Multi cell modules for easy integration into large high voltage and high energy systems
16V to 144V with integrated cell balancing
Temperature monitoring and optional external controller (gateway)

## PCB SWITCHES

### PCB TOGGLE SWITCHES



From 1 to 4 poles
50mA-6A
Brass, nickel plated lever
Silver contacts, solder lug
Available with Agency Approvals
Also available with other lever types

### PCB PUSH BUTTONS

Unipolar
100mA-4A
Brass, nickel plated
Silver contacts, solder lug
Up to 250.000 cycles

### TACT SWITCHES

50mA - 12V
6x6mm and 12x12mm
Pitch: 6.5mm and 12.5mm

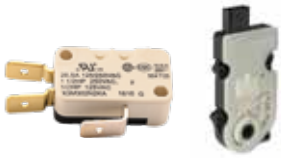
### DIP SWITCHES

From 1 to 16 poles
24VDC/50VDC

### ULTRAMINIATURE MICROSWITCHES

From 0.3A to 12A - 250V
IP40/IP54/IP67 available

### MINIATURE MICROSWITCHES



From 5A to 25A
125V/250V
IP67 available

## MODULAR PCB SWITCHES

### UNIMEC

IP54 sealed
NO+NC double pole
Momentary or latching

### ULTRAMEC

8x8 mm and low profile
IP67 sealed life: 3.000.000 cycles

### MULTIMEC

IP67 sealed
Through-hole mounting or SMD
Life: 10.000.000 cycles

### NAVIGATORS

ControlMec, NaviMec, UltranaviMec
Sealing and lighting options
Highly customizable

### CAPS

Round, square or rectangular
Wide range of dimensions, colors, opacity and surface textures
IP-rated and illuminated versions available

### SWITCH MODULES

Single, navigator or rocker switch
Also sealed or illuminated - easy integration

### MULTIDIRECTIONAL SWITCH

Sizes: 7,5 x 7,35mm and 10,4 x 10x4mm
3 heights: 5mm, 7mm, 9mm - 5 functions
Life: 100.000 cycles

### CUSTOMIZATIONS

Photo-realistic printing and scratch resistance
Possible to customize the shape, size, actuation force and other features of the button caps

## THERMAL PROTECTIONS

### AXIAL THERMAL FUSES

Temperature range: 72°C to 240°C
Different electrical ratings
16-35 or 35-35 terminals
Available with Agency Approvals

### RADIAL THERMAL FUSES

Multiple operating temperature ranges available
Available with Agency Approvals

### ENCAPSULATED THERMAL FUSES

Various electrical ratings
Temperature range 72°C to 240°C
Available with Agency Approvals

### NTC SENSORS

From -40°C to 150°C
Customizable models

### THERMOSTATS

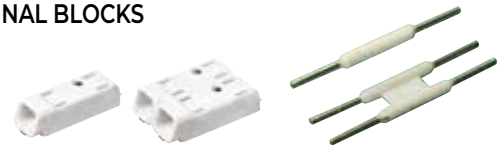
From 10°C to 200°C
16A-250V
Horizontal and Vertical
NC/NO - with fixing lugs or screw mounting

### MANUAL RESET THERMOSTATS

From 70°C to 175°C
16A - 250V
NC

## CONNECTORS

### SMD TERMINAL BLOCKS



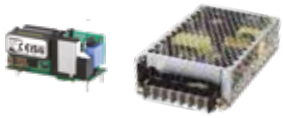
320V or 600V - 6A
1 or 2 poles
Insulated or non-insulated

### RJ45 CONNECTORS

Cat.6a
Shielded and unshielded versions
Modular plugs available

## POWER SUPPLIES

### AC/DC POWER SUPPLIES



Power range: 10 W – 10 kW
Housing types: enclosed, open frame, PCB mount, chassis
Single or multiple output
Cooling types: natural/forced convection or conduction

### DC/DC POWER SUPPLIES

Power range: 1 W – 2.5 kW
Housing types: enclosed, open frame, PCB mount, chassis
Single or multiple output
Cooling types: natural/forced convection or conduction

### AC/DC DIN-RAIL POWER SUPPLIES

Power range: 60 W – 960 W
Single or three-phase input
Screw, spring, push-in installation type
Output Voltage: 12V - 24V - 48V

## RAST CONNECTORS

### RAST 1.5 CONNECTORS

1.5 mm pitch
Up to 12 contacts
Current rating up to 3 A
Cable cross-section: 0.14 to 0.22 mm²

### RAST 2.5 CONNECTORS

2.5 mm pitch
Up to 20 contacts
Current rating up to 10 A
Cable cross-section: 0.14 to 0.38 mm²

### RAST 5 CONNECTORS

5 mm pitch
Up to 12 contacts
Current rating up to 16 A
Cable cross-section: 0.22 to 2.5 mm²

### POWER RAST 7.5 CONNECTORS

7.5 mm pitch
Up to 5 contacts
Current rating up to 25 A
Cable cross-section up to 2.5 mm²

## PCB CONNECTORS

### MINIMODUL, MICROMODUL & MULTIMODUL CONNECTORS

1.27 and 2.5 mm pitch
Up to 26 contacts
Current rating up to 5 A
Cable cross-section up to 0.60 mm²

### SMARTSKED CONNECTORS

2.5 or 5 mm pitch
Up to 13 contacts
Current rating up to 4 A
Cable cross-section: 0.22 to 0.38 mm²

### RAST 2.5 CONNECTORS FOR 1 MM PCB

2.5 mm pitch
Up to 9 contacts
Current rating up to 4 A
Cable cross-section: 0.22 to 0.38 mm²

### PRESS-FIT TECHNOLOGY

Solderless connection
Resistant to shock and vibration
Insertion force: 75 N

## HIGH-CURRENT CONTACT ELEMENTS – SERIES 4580

- Connection from top, bottom or side
- Current rating up to 60 A
- Up to 200 A with proper heat dissipation
- Available with positioning pegs

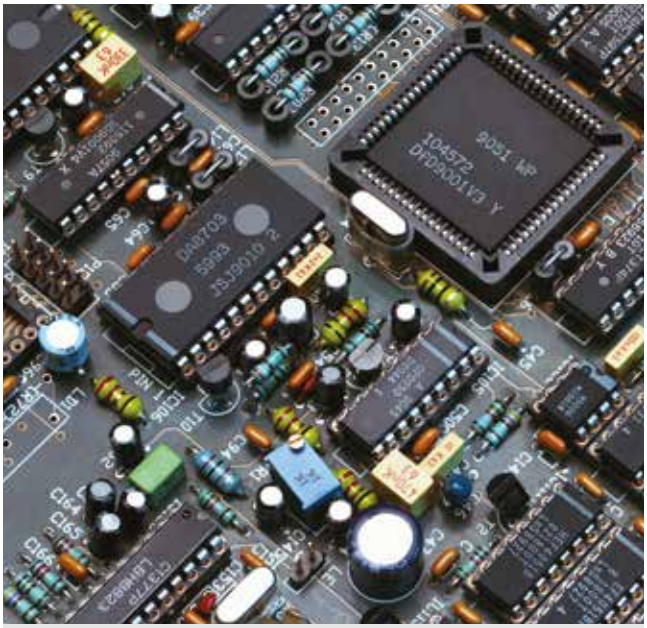
## POWER SUPPLY CONNECTORS

- For plugs 4.0mm x 1.7mm and 6.5 mm x 4.1 mm x 1.0 mm
- Available with Agency Approvals
- Angular version, with break contact, for printed circuit boards

# A WORLD OF APPLICATIONS

## AUTOMATION

- Control and management of industrial production processes



## ELECTRONIC AND ELECTRICITY

- PCB
- Low and Medium Voltage
- Electrical panels

## VEHICLES

- Automotive
- Transports
- Agriculture
- Marine

## LIGHTING

- Industrial plants
- Design

## DEFENSE
- Military vehicles
- Communication systems
- Controllers

## ELECTRICAL APPLIANCES
- Large and small appliances
- Industrial appliances
- Professional cooking

## GREEN ENERGY
- Photovoltaic
- Renewable
- Electric Vehicles
- Storage

## HVAC
- Refrigerated counters
- Hot/Cold systems
- Heating

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