



**The IP&E  
Specialist**

**Le Spécialiste de la Distribution  
de Composants Electroniques**  
**Line Card – Français**

TTI, Inc., – A Berkshire Hathaway Company



# The IP&E Specialist

## Le spécialiste de la distribution de composants électroniques

Fondée en 1971, TTI s'est progressivement développée pour devenir un leader mondial de la distribution spécialisée en composants électroniques. La société a été fondée sur le principe que l'achat de composants passifs pouvait être optimisé via une spécialisation des produits, un service axé client et des solutions de chaînes d'approvisionnement exclusives.

### POURQUOI TTI ?

• **Experts techniques** L'équipe européenne de TTI, composée d'ingénieurs commerciaux, d'ingénieurs d'applications et de marketings produits locaux, est là pour vous aider à comprendre les tendances en matière de composants, les possibilités d'approvisionnement durable et les évolutions produits, avec l'assistance technique de nos ingénieurs d'application.

Nos ingénieurs d'application vous apportent leur support technique et leur expertise pour votre conception.

• **Services à valeur ajoutée** L'assemblage de connecteurs est l'un des services à valeur ajoutée les plus importants de TTI - Europe. Nous sommes spécialisés dans la distribution de connecteurs et de solutions d'interconnexion contrôlés et certifiés par les fabricants et provenant des principaux fournisseurs mondiaux. Grâce à un stock important de composants de connecteurs, TTI, Inc. - Europe peut répondre à toutes les exigences du marché.

• **Centres de distribution mondiaux** Notre siège européen est situé juste en bordure de Munich, en Allemagne, à Maisach-Gernlinden. Au total, nous disposons de 45 000 m<sup>2</sup> de stock dédié et d'une assistance technique et commerciale locale dans plus de 40 sites à travers l'Europe. TTI dispose de plus de 195 000 m<sup>2</sup> de stocks automatisés en Amérique du Nord, en Europe et en Asie. Tous ces stocks sont reliés à un système de gestion global qui permet d'offrir un service client de qualité supérieure et d'améliorer l'efficacité globale de l'entreprise. Où que vous soyez dans le Monde, TTI peut vous aider. Année après année, nos clients témoignent que la disponibilité de nos stocks, la ponctualité de nos livraisons et notre précision sont parmi les meilleurs du secteur - contactez-nous dès aujourd'hui pour découvrir ce qu'un véritable spécialiste peut vous offrir.

• **Qualité et fiabilité** Les stocks mondiaux de TTI sont tous enregistrés ISO et ont été certifiés conformes aux normes ISO 9001 et ISO 14001. TTI Europe est également certifiée selon les normes EN9120/EN9100, IECQ-CECC et ISO/IEC 27001. En outre, nos agences de vente européennes sont certifiées ISO 9001. TTI dispose d'un système de documentation global qui garantit que toutes les agences et tous les stocks de TTI dans le monde suivent les mêmes process.





**80+**  
Fabricants



**45.000 m<sup>2</sup>**  
de stock



L'un des plus grands systèmes  
Autostore d'Europe



**40**  
agences de vente

**24/7**

Disponible à la commande  
en ligne



[www.ttieurope.com](http://www.ttieurope.com)



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# Le Spécialiste de la Distribution de Composants Electroniques

La société distribue les principales marques de composants électroniques dans le monde entier. Notre Line Card comprend tous nos fournisseurs, leurs marques et leurs familles de produits.

## 3M Interconnect Solutions

### A

#### Abrakon

#### Advanced Energy

Artesyn  
Excelsys  
SL Power  
Ultravolt

#### AlpsAlpine

#### Amphenol

ACS  
Aerospace  
AET  
AirLB  
Alden  
ALL SENSORS  
Amphenol Advanced Sensors  
Amphenol CIT  
Tri-Star

#### Anytek

#### Assembletech

Audio  
Australia

#### Auxel

#### Cablescon

#### Canada

#### CDI

#### Conec

#### Connex

#### Elcab

#### FEP

#### Fiber Optics

#### FTG

#### FZE

#### GEC TPI

#### i2s

#### India

#### Industrial

#### Limited

#### Lütze

#### LTW

#### Martec

#### Matrix

#### Nexus

#### NovaSensor

#### PCD

#### Piher Sensing Systems

#### Positronic

#### RF

#### SGX SENSORTECH

#### Sincere

#### Sine

#### Socapex

#### SOLAR

#### Spectra-Strip

#### SSI Technologies

#### SV Microwave

#### TELAire

#### Teradyne Connection (TCS)

#### TFC

#### Times Microwave

#### Thermometrics Ltd

#### Tuchel

#### Wilcoxon

#### Apem

#### IDEC

#### MEC

#### APTIV

HellermanTyton

#### KUM

### B

### Bourns

### C

#### Chemi-Con

#### Cree LED

#### CTS

Tusonix

### D

#### Dialight

### E

#### EATON

Bussmann  
Coiltronics  
PowerStor  
Souriau-Sunbank

### F

#### Flex Power Modules

### G

#### Glenair

#### Gowanda InRcore

InRcore

Vanguard

### H

#### Harting

#### Harwin

#### Honeywell

City Technology  
Sensing and Safety Technologies

### I

#### ITT Cannon

### J

#### JAE

#### JST

### K

#### Kingbright

#### Knowles

Capacitor  
CDE (Cornell Dubilier)  
DLI  
Novacap  
Syfer  
Voltronics

#### KOA

#### KYOCERA AVX

AB Electronics  
American Technical Ceramics  
Elco  
Ethertronics

### L

#### Laird Technologies

#### Lelon

#### Littelfuse

Carling Technologies  
C&K  
Hamlin  
IXYS  
Littelfuse Automotive  
Raychem  
Teccor  
US Sensor  
Western Automation

### M

#### MEAN WELL

#### Molex

Airborn  
Brad®  
Contrinex  
FCT

#### Flamar®

#### GWconnect™

#### ISI

#### mPm®

#### Woodhead

#### Murata

#### Calex

#### Murata Power Solutions

### N

#### Nexans

#### Nichicon

### O

#### OHMITE

#### OmniOn Power

#### Omron Electronic Component

#### Omron Industrial Automation

### P

#### Panasonic

Panasonic Industry

#### Panduit

#### Panjit

#### Phoenix Contact

#### PKC Group

#### PRECI-DIP

### R

#### Radiall

#### Rosenberger

### S

#### Samsung

#### Samtec

#### Schurter

#### Sensata Technologies

#### Airpax

#### BEI Sensors

#### Cynergy3

#### Crydom

#### Gigavac

#### Klixon

#### Smiths Interconnect

#### Hypertac

#### IDI

#### Sabritech

#### Spectrum Control

#### Standex Meder

#### Switchcraft

### T

#### Taiyo Yuden

#### Taoglas

#### TDK

#### TE Connectivity

#### AGASTAT ALCOSWITCH

#### AMP

#### AMP NETCONNECT

#### AST

#### AUGAT

#### AXICOM

#### BetaTHERM

#### CII Technologies

#### Corcom

#### Deutsch

#### DRI Relays

#### ELCON

#### Entelec

#### ERNI

#### First Sensor

#### HARTMANN

#### HTS

#### Intercontec

#### Jaquet

#### KILOVAC

#### Kissling

#### MADISON CABLE

#### Measurement Specialties Inc

#### MICRODOT

#### NANONICS

#### OEG

#### Polamco

#### Potter & Brumfield

#### Raychem

#### Schaffner

#### SCHRACK

#### SMI

#### SSI

#### TE Sensors

#### Teledyne Relays

#### Toshiba

#### TT Electronics

#### AB Elektronik

#### BI Technologies

#### IRC

#### Optek

#### Semelab

#### Welwyn

### V

#### Vishay

#### Angstrohm

#### Barry

#### BC components

#### Beyschlag

#### Cera-Mite

#### Dale

#### Draloric

#### Electro-Films

#### General Semiconductors

#### Huntington/Milwaukee

#### MCB

#### Roederstein

#### Sfernice

#### Siliconix

#### Spectrol

#### Sprague

#### Techno

#### Thin Film

#### Vishay Semiconductors

#### Vitramon

#### Vishay Precision Group

Vishay Foil Resistors

### W

#### WIMA

### Y

#### Yageo Group

#### Ferroxcube

#### Kemet

#### Arcotronics

#### Evov Rifa

#### NEC Tokin

#### Nexensos

#### Phycomp

#### Pulse Electronics

#### Egston

#### Chilisin

#### Bothhand

#### Larsen

#### MagLayers

#### Telemecanique Sensors

#### X-Semi

#### Yageo

#### Brightking

#### Vitrohm

#### Yazaki



## Automotive & Transportation Connectors

	3M	Amphenol	Activ	EATON (Souriau-Sumbank)	Harting	Harwin	HellermannTyton	ITT CANNON	JAE	JST	Kyocera AVX	Molex	Panduit	Phoenix Contact	PKC Group	Radiall	Rosenberger	Samtec	Smiths Interconnect	TE Connectivity	Yazaki	
Airbag Connectors																						
Automotive Ethernet																						
Automotive PCB Headers																						
Board-to-Board																						
Circular – Metal																						
Circular – Sealed																						
Circular – Unsealed																						
Contacts																						
Data Connectivity - Differential - HSD / H-MTD																						
Data Connectivity - RF – Coax/ Microwave																						
Data Connectivity - RF – FAKRA/ Mini-Fakra																						
EV/HEV – High Power																						
EV/HEV - Auxiliary Connectors																						
EV/HEV – 48V Connectors																						
EV/HEV – Charging Couplers																						
EV/HEV - AC Vehicle Inlets																						
EV/HEV - DC Vehicle Inlets																						
Fibre Optic Products																						
FFC/FPC Connectors																						
Fuse/Lamp Holders																						
Input/Output																						
ISO – Agricultural/Trailer Connectors																						
Multimedia/Convenience Port																						
Memory Card																						
Modular Blocks																						
Rail – High Reliability Power																						
Rail – Signal Connectors																						
Relay Holders																						
Rectangular – Heavy-Duty																						
Rectangular – Sealed																						
Rectangular – Unsealed																						
Sensor Interconnects																						
Solderless Terminals																						
Terminal Blocks																						
Tooling																						
Wire & Cable																						
Wire Management – Fixing & Identification																						
Wire-to-Board																						
<b>Wire to Wire</b>																						
Agriculture, Farm & Garden																						
Automotive																						
Charging Equipment & Infrastructure																						
Commercial Vehicles – Bus & Truck																						
Construction & Mining																						
Electric & Fuel Cell Vehicles																						
Marine																						
Military/Aerospace																						
Recreational Vehicles																						
Rail/Mass Transit																						

## Backplane, Board-To-Board & Device-To-Board

	3M	Amphenol	EATON (Souriau-Sumbank)	Harting	Harwin	ITT Cannon	JAE	JST	Kyocera AVX	Molex	Preci-Dip	Radiall	Rosenberger	Samtec	Smiths Interconnect	TE Connectivity
<b>Backplane</b>																
10 Gb/s+ Solutions																
2.00mm																
Assemblies (Backplane)																
ATCA/MicroTCA																
Cable Assemblies																
Card Edge																
Compact PCI																
DIN 41612 (Eurocard)																
Fiber Optic																
Future Bus																
Hard Metric																
PCI Express																
Power																
RF/Ganged RF																
SCA-2																
<b>Board-to Board</b>																
Ball Grid Array (BGA)																
Battery Connectors																
Board Stacking																
Breakaway Headers																
Compression																
Headers & Receptacles																
Mezzanine/FPC																
Power																
SCSI																
Shunts																
Stacking																
<b>Device-to Board</b>																
DIMM																
DIP																
PCMCIA																
PGA																
PLCC																
RIMM/DIMM/SIMM																
SIP																
SO DIMM & RIMM																
Test/Burn-In Sockets																
Transistor																

## Cable & Wire/ Management

	3M	Amphenol	EATON (Souriau-Sumbank)	Harting	HellermannTyton	JAE	JST	Kyocera AVX	Molex	Nexans	Panduit	Phoenix Contact	Radiall	Rosenberger	Samtec	Smiths Interconnect	Taoglas	TE Connectivity	
<b>Cable &amp; Wire</b>																			
Cable Assemblies																			
Coaxial (RF)																			
EV/HEV – High Power																			
Fiber Optic																			
Flat Flex (FFC, FPC)																			
Flat Ribbon																			
Modular – Flat																			
Multiple Conductor																			
Single Conductor (Wire)																			
<b>Cable &amp; Wire Management</b>																			
Accessories																			
Bushings, Grommets																			
Cable and Cord Grips																			
Cable Braids																			
Cable Ties																			
Clamps and Clips																			
Cold Shrink Tape, Tubing																			
Heat Shrink Boots and Tubing																			
Identification – Labels and Markers																			
Solid Tubing and Sleeving																			
Spiral Wrap and Expandable Sleeving																			
Splice Enclosures and Protection																			

## Industrial Factory & Process Automation

	3M	Amphenol	EATON (Souriau-Sunbank)	Harwin	JST	Kyocera AVX	Molex	Phoenix Contact	Rosenberger	Samtec	Smiths Interconnect	TE Connectivity
M8/M12 Field Attachable												
M8/M12 circular connector												
M17/M23 circular connector												
M40/M58 circular connector												
Plastic Circular Connector												
Industrial USB												
Industrial I/O connector												
Industrial RJ45												
SPE – Single Pair Ethernet												
Industrial Network cable												
Distribution Modules												
Active I/O Modules												
Heavy Duty rectangular												
Terminal Blocks												
DIN Valve connector												
Industrial Power connector												
Industrial raw cable												
Terminal & Splices												
Wire to Board												
Wire to Wire												
<b>By Market Segment</b>												
Automation Controls												
Motion & Drives												
Machine Tools												
Robotic, AGV's & AMR's												
Warehouse Automation												
Smart Home & Security												
HVAC & Heating												
Smart Metering												
Lighting												
Renewable Energy												
Energy Storage & Charging												

## Input/Output

	3M	Amphenol	Aptiv	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harwin	JAE	JST	Kyocera AVX	Molex	Phoenix Contact	Radiall	Rosenberger	Samtec	Smiths Interconnect	Taoglas	TE Connectivity	Yageo PULSE	
1394 & 1394b																				
Audio																				
Audio ¼" Phone																				
Audio 3.5mm PCB																				
Audio BNC 75ohm																				
Audio XLR																				
Audio MP Multipin																				
Camera Link/Mini Camera Link																				
Circular																				
Combo I/O																				
Display Port																				
D-Subminiature																				
DVI																				
Fiber Channel																				
Fiber Optic																				
Filtered I/O																				
HDMI/Micro HDMI																				
Ipass (Mini SAS)																				
InfiniBand®																				
M12/M12D/M8																				
Micro D																				
Mini DIN/Circular DIN																				
Mini D-Subminiature																				
Mobile Systems																				
Modular Plugs & Jacks																				
PCI Express																				
Power																				
Push/Pull																				
Rectangular																				
RF/Coax/Microwave																				
RJ/Industrial Ethernet																				
SATA/SAS/Mini SATA																				
SCSI																				
SFP/XFP																				
TDP																				
USB/Mini USB/USB OTG																				

## Memory Card Connectors

	3M	Amphenol	C&K Components	JAE	JST	Kyocera AVX	Molex	TE Connectivity
CompactFlash™								
DDR/DDR2/Mini DDR2/DDR3/DDR4/DDR5								
Express Card								
Memory Stick/Duo								
Micro SD								
Mini SD								
MMC								
PC Card/CardBus								
PCMCIA								
SD (Secure Digital)								
Smart Card (SIM)								

## Military & Avionics Specifications

	Amphenol	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Smiths Interconnect	TE Connectivity
EN2997/ESC						
EN3645						
EN4165						
HE301						
HE308						
MIL-22992						
MIL-DTL-26482 Series 1 Crimp						
MIL-DTL-26482 Series 1 Solder						
MIL-DTL-26482 Series 2						
MIL-DTL-27599 Solder						
MIL-DTL-28840 Shipboard						
MIL-DTL-38999 Series I & II						
MIL-DTL-38999 Series III						
AS50151						
MIL-DTL-55302						
MIL-C-81511						
MIL-DTL-83723						
Hermetics						
VG95234						
VG95328						
VG96912						
VG96929						
MIL-DTL-12883						
MIL-DTL-24308 Solder 1 & 3						
MIL-DTL-24308 Crimp 2 & 4						
MIL-DTL-24308 PC Tail 23 & 24						
MIL-DTL-26500						
MIL-DTL-29504						
MIL-DTL-38999 Series IV						
MIL-DTL-39012						
MIL-DTL-55339						
MIL-DTL-83513						
AS81511						
AS81714						

## Military Connectors & Accessories

	Amphenol	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harwin	HellermannTyton	Molex	Panduit	Preci-Dip	Radiall	Rosenberger	Samtec	Smiths Interconnect	TE Connectivity
Backshells & Accessories														
Coax/RF														
Contacts														
D-Subminiature														
Discrete Sockets														
Filtered Audio Connector														
Micro D														
Rack & Panel														
Sealed Plugs														
Microwave														
Terminal Blocks														
Terminals														
Tools														

RF/Coaxial/ Microwave	3M	Amphenol	EATON (Souriau-Sunbank)	ITT Cannon	JAE	JST	Kyocera AVX	Molex	Radiall	Rosenberger	Samtec	Smiths Interconnect	Taoglas	TE Connectivity
1.0/2.3														
1.6/5.6														
7/16														
BMA														
BNC (50/75Ω)														
BNC (Miniature)														
B to B Blindmate/Compression														
BSA														
FAKRA														
MCX/MMCX														
MHV/SHV														
Precision1														
QMA														
Reverse Polarity2														
Shielded Terminators														
SMA														
SMB (50/75Ω)														
SMB (Miniature)														
SMC														
SMP														
SMT														
SSMA														
TNC														
Triax														
Twinax														
Type F/G														
Type N														
UHF/MiniUHF														

Speciality Connectors	3M	Amphenol	Aptiv	Bourns	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harling	Harwin	HellermannTyton	JAE	JST	Kyocera AVX	Molex	Phoenix Contact	Rosenberger	Samtec	Smiths Interconnect	Switchcraft	TE Connectivity	
Automotive																					
Battery																					
COTS																					
EMI Shielded																					
Filtered																					
Harsh Environment																					
Hermetic																					
High Voltage																					
Industrial																					
LED Connector																					
Micro Miniature/Nano																					
Motor Connectors																					
Solar																					

Terminal Blocks	Amphenol	EATON (Souriau-Sunbank)	Harling	Molex	Phoenix Contact	TE Connectivity
Barrier Strips						
Europa						
Eurostyle – Fixed/Pluggable						
2.54mm						
3.50mm						
3.81mm						
5.00mm						
5.08mm						
Filtered						
Interface Modules						
Phenolic						
Rail Mounted						
Screw Terminal						
Spring Clamp						

Wire & Board Management/ Accessories	3M	Amphenol	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harling	Harwin	HellermannTyton	JAE	JST	Molex	Kyocera AVX	Panduit	Phoenix Contact	Preci-Dip	Samtec	TE Connectivity
Backshells																	
Cable Clips																	
Cable Management																	
Cable Marker Ties																	
Cable Mounts																	
Cable Spacers																	
Cable Terminals																	
Cable Ties																	
Heat Shrink Products																	
Jumper Links																	
Labelling Systems																	
Labels																	
PCB Spacers																	
PCB Terminals																	
Printers/Software and Ribbons																	
RFI Clips & Spring Fingers																	
Shorting Links																	
Solderless Terminals																	
Splices																	
Stainless Steel Accessories																	
Test Points																	
Tooling																	
Wire & Cable																	

Wire-To-Board/ Wire-To-Wire	3M	Amphenol	Aptiv	EATON (Souriau-Sunbank)	Glenair	Harling	Harwin	JAE	JST	Kyocera AVX	Molex	Omron	Panasonic Industry	Phoenix Contact	Samtec	Smiths Interconnect	TE Connectivity
1.25mm																	
1.27mm																	
2.00mm																	
2.50mm																	
2.54mm																	
3.00mm																	
3.96mm																	
4.00mm																	
4.20mm																	
5.00mm																	
5.03mm																	
5.08mm																	
6.35mm																	
7.50mm																	
9.00mm																	
10.00mm																	
Bus Bar																	
Cable Assemblies																	
Discrete Wire																	
FFC/FPC																	
IDC Discrete Wire																	
IDC/Mass Termination																	
Mini D Ribbon/Champ																	
Power																	
SATA/SAS/Mini SATA																	
SCSI I, II, III																	

## Relays & Circuit Breakers

	IDEC	Littelfuse	Omron	Panasonic Industry	Phoenix Contact	Radiall	Standex Meder	Sensata - Crydom, Cynergy 3	Sensata - Gigavac	TDK Electronics	TE Connectivity - Kilovac, CII,	Kissling	Teledyne	Toshiba	Vishay
<b>Relays</b>															
Automotive		■	■	■			■	■		■	■				
Communication		■	■	■											
Contactors/ Electrification		■	■	■				■	■	■	■				
Control	■	■	■	■						■	■				
Counters			■												
Crystal Can (Military)										■	■				
Definite Purpose Contactors			■	■					■	■	■				
DIN Rail Mounted	■	■	■	■	■		■			■	■				
Force Guided Contact	■	■	■	■						■	■				
General Purpose	■	■	■	■						■	■				
High Frequency Relays		■	■	■	■	■	■	■		■	■				
High Voltage		■	■	■			■	■		■	■				
Industrial DC & AC	■	■	■	■						■	■				
Input/Output Modules		■	■	■						■	■				
Magnetic Latching			■	■				■		■	■				
Microwave		■	■	■			■			■	■				
Military/Space								■		■	■				
Miniature PCB			■	■						■	■				
MOSFET/PhotoMOSTM		■	■	■				■		■	■	■	■	■	■
Panel/Plug-In	■	■	■	■	■			■		■	■				
Power	■	■	■	■				■		■	■				
Pre-Charge Relays		■	■	■				■	■	■	■				
Reed		■	■	■			■	■		■	■				
Safety	■	■	■	■						■	■				
Signal		■	■	■			■			■	■				
Sockets	■	■	■	■				■		■	■				
Solid State Relays	■	■	■	■	■			■		■	■				
Time Relays	■	■	■	■						■	■				
<b>Circuit Breakers</b>															
Magnetic Circuit Breakers				■						■					
Thermal Circuit Breakers				■						■					

## Switches

	AlpsAlpine	APEM/IDEC/MEC	Amphenol - Pflter	Bourns	C&K	Honeywell	Littelfuse	Omron	Panasonic Industry	Schurter	Standex Meder	TDK Electronics	TE Connectivity	Teledyne
<b>ATEX</b>														
Counters/Hour Meters						■								
DIP	■	■				■		■					■	
DIP Coded Rotary		■				■		■					■	
Emergency Stop/Safety		■				■								
Encoder	■			■				■	■					
Fader/Potentiometer	■		■	■				■	■					
Limit - Heavy Duty						■		■	■					
Joystick	■	■				■		■						
Keylock/Switchlock						■	■	■	■				■	
Microswitch/Snap Action	■	■				■	■	■	■				■	
Mil/Aero/Space Grade Level	■	■				■	■	■	■					■
Miniature Detection	■					■		■	■					
Navigation Switches	■	■				■								
Off-Road - Special Purpose							■							
Piezo Switch		■								■		■		
Pushbutton	■	■				■	■	■	■	■			■	
Pushwheel/Thumbwheel						■		■	■	■			■	
Reed							■				■			
Rocker						■	■	■	■	■			■	
Rotary	■					■		■	■				■	
Slide								■					■	
Tactile	■	■	■	■				■	■				■	
Toggle/Paddle		■				■							■	

# Passif – Capacitif

## Aluminium

	Chemi-Con	Cornell Dubilier	Eaton (Cooper Bussmann)	Kyocera AVX	Lelon	Murata	Nichicon	Panasonic Industry	TDK (EPCOS)	Vishay (BC components)	Yageo KEMET
AC Motor Start											
Axial Electrolytic											
EDLC/Supercapacitor											
FlatPack Electrolytics											
Polymer											
Radial Miniature											
Screw Terminal											
Snap-In											
Surface Mount											
High Rel											

## Ceramic

	Chemi-Con	Cornell Dubilier	Knowles (Syfer)	Kyocera AVX	Murata	Samsung	Taiyo Yuden	TDK	Tusonix	Vishay	BCcomponents	Ceramate	Vitramon	Yageo KEMET	Yageo YAGEO
Arrays															
Dip 2-Pin															
Disc															
High Cap															
High Q															
High Temperature															
High Voltage															
Low Inductance															
Multi-Layer															
RF/Microwave															
Safety															
Single Layer															
Switch Mode															
Tip 'n' Ring															
Trimmer															
High Rel															

## Film & Mica

	BCcomponents	Cornell Dubilier	Draloric	Kyocera AVX	Nichicon	Panasonic Industry	TDK (EPCOS)	Vishay	Roederstein	WIMA	Yageo KEMET
High Rel											
Film											
Motor Run											
Polyester											
Polypropylene											
Power Film											
Snubber											
Suppression X-Y (Safety Cap)											
Surface Mount											
Mica											
Metal Clad											
Mica											
Surface Mount											

## Tantalum

	Cornell Dubilier	Kyocera AVX	Panasonic Industry	Vishay	Sprague	Tansitor	Yageo KEMET
Micro-Chip							
Conformal Coated Chip							
Dipped Radial							
Fail Safe/Fused Chip							
Hermetic Through Hole							
High Temperature Chip							
Low ESR Chip							
Low Profile Chip							
Molded Chip							
Molded Through Hole							
Niobium Chip							
Polymer Chip							
Solid Metal Case Through Hole							
Supertan							
Wet Through Hole							
High Rel							

Film	Angstrohm	BCcomponents	BI Technologies	Bourns	Dale	Electro-Films	Huntington/Milwaukee	IRC	KOA	OHMITE	Panasonic Industry	TE Connectivity	Techno	Thin Film	TT Electronics	Vishay	Vishay Precision Group	Welwyn	Sfernice/MCB	Yageo YAGEO
Chip Array																				
Discrete Chip																				
Flame Proof																				
Fusible																				
High Temp																				
High Voltage																				
Matched Sets																				
Melf /Cylindrical																				
Metal Film																				
Metal Glaze																				
Metal Oxide																				
Precision																				
Thick Film Chip																				
Thin Film Chip																				
Trimable																				
Voltage Divider																				
High Rel																				

Network	BI Technologies	Bourns	Dale	Electro-Films	Huntington/Milwaukee	IRC	KOA	Panasonic Industry	TE Connectivity	Techno	Thin Film	TT Electronics	Vishay	Vishay Precision Group	Welwyn	Yageo YAGEO
Array																
Conformal Coated																
Custom																
Integrated Passive																
Ladder																
Line Protection																
Molded																
Resistor/Capacitor																
SMT																
Surge																
Thick Film DIP																
Thick Film SIP																
Thin Film DIP																
Thin Film SIP																
High Rel																

Potentiometers/ Trimmers	BCcomponents	Bourns	Dale	Honeywell	Knowles (Syfer)	KOA	Murata	OHMITE	Panasonic Industry	Sfernice/ MCB	Spectrol	TE Connectivity	TT Electronics (BI Tech)	Tusonix	Vishay	Vishay Precision Group
High Rel																
Trimming Potentiometers																
Adjustment Tools																
Carbon																
Cermet																
Counters																
Dials/Knobs																
Multi-Turn																
Open Frame																
Open Frame Slide																
Sealed Frame																
Single-Turn																
Wirewound																
Precision Panel Control																
Carbon																
Cermet																
Conductive Plastic																
Knobs																
Hybrid																
Linear																
Metal Foil																
Modular																
Motor Pot																
Multi-Turn																
Non-Linear																
Rheostat																
Rotary																
Sealed Frame																
Single-Turn																
Wirewound																
Sensor/Encoder																
Attenuator																
Encoders																
Linear Motion																
Rotary																

Power/ Wirewound/ Carbon & Foil	BI Technologies	Bourns	Dale	Huntington/Milwaukee	IRC	KOA	Kyocera AVX	OHMITE	Panasonic Industry	Sfernice/ MCB	TE Connectivity	Thin Film	TT Electronics	Vishay	Vishay Precision Group	Welwyn	Yageo YAGEO
High Rel																	
Power/Wirewound																	
Brackets/Hardware																	
Ceramic Composition																	
Commercial																	
Current Sense/Low Resistance																	
Industrial																	
Precision																	
Rheostat																	
Special Purpose																	
Tubular																	
Vitreous Enamel																	
Carbon																	
Carbon Composition																	
Carbon Film																	
Foil																	
Bulk Metal Foil																	

# Protection & Electromagnétique

## Protection Devices

	BC Components	Bourns	Chemi-Con	Dale	EATON	EPCOS	KOA	Kyocera AVX	Littelfuse	Murata	Panasonic Industry	Sensata - Gigavac	Schurter	TDK	Vishay	Yageo YAGEO
<b>Overcurrent</b>																
Axial (PICO) Fuses																
Automotive (Blade) Fuses																
Automotive HV (Passive Active) Fuses																
Cartridge Fuses																
High Voltage Fuses																
NTC Thermistors																
Power (Electrical) Fuses																
PTC Thermistors																
Radial Leaded Resettable Fuses (PPTC)																
Radial Subminiature Fuses																
SMT Resettable Fuses (PPTC)																
Surface Mount (125V+) Fuses																
Telecom Resettable Fuses (PPTC)																
Thermal Cutoffs (TCO)																
Thin Film (Chip) Fuses																
<b>Over Voltage</b>																
Gas Discharge Tube (GDT)																
Line Protection Networks																
Polymer ESD Suppression																
Protection Thyristors																
Surface Mount Varistors (MLV)																
Thermal (MOV)																
Through-Hole Varistors (MOV)																
TVS Diodes																
TVS Diodes Arrays																
<b>Pyro Fuse</b>																
Pyro Fuses																

## EMI/RFI & RF

	Abracon	Amphenol	EPCOS	Kyocera AVX	Molex	Murata	Panasonic Industry	RF 360	Schaffner	Schurter	Taiyo Yuden	Taoglas	TDK	TE Connectivity	Tusonix (CTS)	Yageo KEMET	Yageo PULSE
EMI/RFI Filters																	
Feed-Thru Filters																	
RF/Microwave Filters																	
SAW Filters																	
Surface Mount Filters																	
RF/Wireless Antennas																	

## Frequency Control

	Abracon	Kyocera AVX	Murata	Panasonic Industry	RF360	Samsung	TDK	Vishay (Dale)
Crystals								
Oscillators								
Piezo Sound Devices								
Resonators								
Tuning Forks								

## Ferrites/ Inductors/ Transformers

	Abracon	Bourns	Chemi-Con	Eaton (Coiltronics)	EPCOS	Gowanda	INRCORE	KOA	Kyocera AVX	Laird	Murata	Panasonic Industry	Samsung	Schaffner	Schurter	Taiyo Yuden	Taoglas	TDK	TT Electronics (BI Tech)	Vishay	Yageo KEMET	Yageo PULSE	Yageo YAGEO
Air Coil Inductors																							
Common Mode Chokes																							
Custom Inductors																							
Ferrite Beads																							
Ferrite Cores/Clamp Filters																							
High Current Inductors																							
Leaded Inductors																							
Military Inductors																							
Multilayer Inductors																							
Power Inductors																							
RF Inductors																							
Thin Film Inductors																							
Toroid Inductors																							
Transformers																							
Wirewound/Coil Inductors																							

## Sound Devices

	Kyocera AVX	Murata	Taoglas	TDK
Buzzer				
Microphone				
Receiver				
Ringer				
Sensor				
Sounder				
Speaker				

## Diodes & Power Modules

	Bourns	Eaton	Kyocera AVX	Littelfuse	Panjit	TDK	Toshiba	TT Electronics	Vishay	Yageo YAGEO
<b>Protection</b>										
Arrays										
ESD										
HiRel TVS										
TVS										
TVS Diodes Arrays										
Zener										
<b>Standard</b>										
Arrays										
PIN Diodes										
Schottky										
Small Signal										
Switching										
<b>Rectifiers</b>										
Bridge										
Standard										
Fast										
Ultrafast										
Schottky										
Silicon Carbide										
<b>Dice Solutions</b>										
Rectifiers										
High Voltage Diodes										
Schottky Diodes										
TVS Diodes										
Thyristors										
<b>Modules</b>										
Bridge										
Diode										
IGBT										
Thyristor										
MOSFET										
Silicon Carbide										

## Transistors and Thyristors

	Bourns	Littelfuse	Panjit	Toshiba	TT Electronics	Vishay	Yageo XSEMI
<b>Standard Transistors</b>							
Bipolar							
Small Signal							
<b>MOSFETs</b>							
Low Voltage							
Medium Voltage							
High Voltage							
JFET							
Automotive Qualified							
Mil Qualified							
<b>Power Transistors</b>							
Silicon Carbide							
IGBTs Discrete							
IEBTs Discrete							
<b>Thyristors</b>							
Protection							
Switching							
Sidac							
SCR							
Triac							

## Integrated Circuits

	Bourns	Kingbright	Littelfuse	Panjit	Toshiba	TT Electronics	Vishay
<b>Integrated Circuits</b>							
LED Driver							
Logic Ics							
Low Drop Out Regulators (LDO)							
AC-DC Switching Regulator							
Power Switches							
Signal Chain ICs							
Motor Control ICs							
Automotive Brushless Motor Drive ICs							
Automotive Brushed DC Motor Driver IC							
Automotive Stepping Motor Driver ICs							
Automotive Driver ICs							
Analog Switch							
DC/DC Converter							
Non-Isolated DC-DC Switching Regulators							
Voltage Regulator							
Power Stage Integrated Driver plus MOSFETs							
Smart Load Switches							
Slew Rate Control							
Current Limit							
True Bi-Directional							

## Design Tools

	Bourns	Dialight	Kingbright	Littelfuse	Panjit	TDK	Toshiba	TT Electronics	Vishay
<b>Evaluation and Demo Tools</b>									
IC – Buck Converter Evaluation Board									
IC – Simulation Software									
BOM Crossing									
LED Demo Boards									
Ambient Light Sensor Evaluation Board									
Mid Range Ambient Light & Proximity Evaluation Board									
Short Range Ambient Light & Proximity Evaluation Board									
UV-A+B Sensor Evaluation Board									
RGBW Sensor Evaluation Board									
NPI – Samples ex stock TTI									

## Opto Electronic

	APEM	Cree LED	Dialight	Kingbright	Littelfuse	TT Electronics	Toshiba	Vishay
<b>Visible LEDs</b>								
High Power LEDs								
Standard LEDs – SMD								
Standard LEDs – SideView SMD								
Standard LEDs – Reverse Mount SMD								
Standard LEDs – Through Hole 1.8/3/5mm								
LEDs –Bicolor								
LEDs –RGB								
<b>Visible LED Solutions</b>								
Circuit Board Indicator SMD								
Circuit Board Indicator Through Hole								
Panel Mount Indicators SMD								
Panel Mount Indicators								
<b>Infrared Emitter</b>								
Infrared Emitters								
Infrared Emitters – High Power								
<b>UV Solutions</b>								
UV-A LED								
UV-B LED								
UV-C LED								
<b>Optical Detectors and Sensors</b>								
Ambient Light & Proximity Sensors								
Ambient Light Sensors								
Biometrical Sensor								
Fibre Optic								
Hall Effect								
Infrared/Human Presence Detection								
Photo Diodes								
Photo IC								
Photo Transistors								
Proximity Sensors								
Reflective Sensor								
RGBW Sensors								
Slotted Switches								
Transmissive Sensor								
<b>Infrared Communication</b>								
Infrared Receiver Modules								
IRDC Components								
<b>Dice Solutions</b>								
IR Emitters								
Photo Detectors								
<b>Optocoupler Solution</b>								
Opto Couplers/Isolators								
Non-linear Opto Couplers								
Phototransistor Output								
Photodarlington Output								
Optocoupler with AC Input								
Linear								
Phototriac Output								
High Speed								
IGBT & MOSFET Driver								
Isolated IPM Driver								
Solid State Relays								
Analog Switches								
<b>ICs</b>								
LED Driver								
<b>Light Pipes and Accessories</b>								
LED Holder								
LED Clips								
Light Pipes								
Lenses								
<b>Modules and Displays</b>								
Display Modules								
LCD Displays								
LED Displays								
OLED Displays								
Plasma Displays								
7-Segment Displays								
LED Dot Matrix Displays								
LED Modules								

## Sensors

	AlpsAlpine	Amphenol / All Sensors	Amphenol / Amphenol Advanced Sensors	Amphenol / i2s	Amphenol / Novasensor	Amphenol / Piher Sensing Systems	Amphenol / SGX Sensortech	Amphenol / SSI Technologies	Amphenol / Telaire	Amphenol / Thermometrics	Amphenol / Wilcoxon	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	Kyocera AVX	Littelfuse (Western Automation)	Molex / Contrainex	Murata	Omron	Panasonic Industry	Sensata Technologies (Crydom, Cynergy3, Airpax, BEI Sensors, Klixon, Sendyne)	TDK	TE Sensors (MEAS, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishay	Yageo Nexensos	Yageo Telemecanique Sensors
<b>Pressure</b>																											
Board Mount Pressure																											
Disposable Medical Pressure Sensors																											
Dies																											
Altimeter/Barometric																											
Combination MEMS																											
Packaged Pressure																											
Pressure Switches																											
<b>Force</b>																											
Force																											
Load Cell/Load Pin																											
Torque																											
<b>Flow</b>																											
Air Flow																											
Liquid Flow																											
Flow Switch																											
Fluid Property Sensors																											
Turbidity																											
<b>Motion, Speed &amp; Position</b>																											
Accelerometer																											
Gyroscope																											
Inclinometer/Tilt																											
Shock/Vibration																											
Inertial Measurement Unit																											
Encoder/Rotary – Board Mount																											
Encoder/Rotary – Industrial/Transportation																											
Face Recognition Sensors (HVC – Human Vision Component)																											
Proximity – Inductive																											
Proximity – MagnetoResistive/ Hall Effect																											
Proximity – Reed Switches																											
Proximity – Optical																											
Speed Sensor																											
GeoMagnetic Sensors																											
Resolver																											
Ultrasonic																											
<b>Air Quality &amp; Gas Sensing</b>																											
CO2																											
VOC (COV)																											
Industrial Gas – Pellistor, InfraRed, Electro-Chemical, MEMS																											
Dust/Particle																											
Ionizer																											
Medical Gas Sensors (O2)																											
Pulse Oximetry SpO2																											
<b>Temperature &amp; Humidity</b>																											
Combination MEMS, Digital Temperature Sensors																											
Humidity																											
NTC Thermistor – Leaded																											
NTC Thermistor – SMT																											
Probes & Assemblies																											
PTC Thermistors																											
RTD/PTC Thermistors – Customised – Platinum																											
PTC Thermistors – Customised – Ceramic Heating																											
Heaters – Copper Customised																											
Thermocouples																											
Thermopiles/Human Presence Detection – Solutions																											
Thermopiles/Human Presence Detection – Component																											
Thermostats																											

## Sensors

	AlpsAlpine	Amphenol / All Sensors	Amphenol / Amphenol Advanced Sensors	Amphenol / I2s	Amphenol / Novasensor	Amphenol / Piher Sensing Systems	Amphenol / SGX Sensortech	Amphenol / SSI Technologies	Amphenol / Telaire	Amphenol / Thermometrics	Amphenol / Wilcoxon	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	Kyocera AVX	Littelfuse	Molex / Conrinex	Murata	Omron	Panasonic Industry	Sensata Technologies (Crydom, Cynergy3, Airpax, BEI Sensors, Klixon, Sencidyne)	TDK	TE Sensors (Measurement Specialties, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishay	Yageo KEMET	Yageo Nexensos	Yageo Telemecanique Sensors
<b>Optical</b>																												
Ambient Light																												
Fibre Optic																												
PIR /Infrared																												
Matrix Sensors																												
Laser																												
Proximity – Optical																												
Solar																												
Time Of Flight (TOF)																												
Ultra Violet																												
Colour Sensors																												
<b>Level Sensors</b>																												
Liquid Level																												
Urea, Water (WIF/ WIF+WDS/WS), Diesel																												
Powder Level Sensors																												
Hydra-static Pressure Cells																												
<b>Other</b>																												
Sensor Modules																												
Current Sensors																												
Capacitive Touch																												
Inductive Sensors – Factory Automation/Transportation																												
Insulation Monitoring																												
Light Curtain Safety – Factory Automation																												
Magnets																												
Medical Sensor Cable Assemblies/Pulse Oximetry																												
Sensor Development Boards																												
Voltage Sensors																												

## Wireless Modules

	Murata	Panasonic Industry	Taoglas	TE (Linx Technology, Laird Connectivity)
<b>Wireless Modules</b>				
Bluetooth				
Cellular				
GNSS				
LoRa				
Sub-GHz Transceivers				
UWB				
Wi-Fi				
Zigbee/Thread/Matter				

## Antennas

	Abracon	Amphenol MCP	JAE	Kyocera AVX	Molex	Panasonic Industry	Radiall	Taoglas	TE (Linx Technology, Laird Connectivity)	Yageo PULSE
<b>Embedded (ceramic/helix/stamp metal)</b>										
NFC										
169 MHz										
433 MHz										
LoRa, Sigfox, ISM (868/915 MHz)										
NB-IoT										
GPS/GNSS										
2G/3G/4G/5G										
WiFi/BT/Zigbee (2.4/5 GHz)										
V2V/V2X/DSRC										
UWB										
<b>Internal (Cabled PCB/Flex)</b>										
NFC										
433 MHz										
LoRa, Sigfox, ISM (868/915 MHz)										
NB-IoT										
GPS/GNSS										
2G/3G/4G/5G										
WiFi/BT/Zigbee (2.4/5 GHz)										
V2V/V2X/DSRC										
UWB										
<b>External</b>										
AM/FM/DAB										
169 MHz										
TETRA										
433 MHz										
LoRa, Sigfox, ISM (868/915 MHz)										
NB-IoT										
GPS/GNSS										
2G/3G/4G/5G										
WiFi/BT/Zigbee (2.4/5 GHz)										
V2V/V2X/DSRC										
Combination antenna										

# Alimentations & Convertisseurs

Power Supplies	Advanced Energy (Artesyn, Excelsys, SL Power, Ultravolt)	APEM / IDEC	Calex	Flex Power Modules	MEAN WELL	Murata	OmniOn Power	Omron Industrial Automation	Phoenix Contact	TDK	Vishay	Yageo PULSE
<b>Internal/Embedded AC/DC</b>												
Low to Mid Power (1W – 500W)	■	■	■	■	■	■	■	■	■	■	■	■
High Power (500W – 4kW)	■	■	■	■	■	■	■	■	■	■	■	■
Very High Power (>4kW)	■	■	■	■	■	■	■	■	■	■	■	■
Single Output	■	■	■	■	■	■	■	■	■	■	■	■
Multi-Output (Dual, Triple, Quad)	■	■	■	■	■	■	■	■	■	■	■	■
PCB Mount	■	■	■	■	■	■	■	■	■	■	■	■
Open Frame	■	■	■	■	■	■	■	■	■	■	■	■
U-Channel/Enclosed	■	■	■	■	■	■	■	■	■	■	■	■
Modular/Configurable	■	■	■	■	■	■	■	■	■	■	■	■
ATX	■	■	■	■	■	■	■	■	■	■	■	■
Front End, Bulk Power	■	■	■	■	■	■	■	■	■	■	■	■
Medical Rated	■	■	■	■	■	■	■	■	■	■	■	■
Conduction Cooled	■	■	■	■	■	■	■	■	■	■	■	■
Industrial Temperature	■	■	■	■	■	■	■	■	■	■	■	■
Extended Temperature	■	■	■	■	■	■	■	■	■	■	■	■
Digital interface	■	■	■	■	■	■	■	■	■	■	■	■
Power Over Ethernet (PoE)	■	■	■	■	■	■	■	■	■	■	■	■
AC/DC Military	■	■	■	■	■	■	■	■	■	■	■	■
<b>External - AC/DC</b>												
Wall Mount Adapters	■	■	■	■	■	■	■	■	■	■	■	■
Wall Mount USB-PD	■	■	■	■	■	■	■	■	■	■	■	■
Desktop	■	■	■	■	■	■	■	■	■	■	■	■
Medical Rated	■	■	■	■	■	■	■	■	■	■	■	■
DIN Rail	■	■	■	■	■	■	■	■	■	■	■	■
DIN Rail Redundancy Modules	■	■	■	■	■	■	■	■	■	■	■	■
DIN Rail Buffer Modules	■	■	■	■	■	■	■	■	■	■	■	■
High Power (>1kW)	■	■	■	■	■	■	■	■	■	■	■	■
LED Drivers	■	■	■	■	■	■	■	■	■	■	■	■
KNX products	■	■	■	■	■	■	■	■	■	■	■	■
Laboratory Power Supplies Programmable	■	■	■	■	■	■	■	■	■	■	■	■
<b>Specific Purpose</b>												
Uninterruptible Power Supply (UPS)	■	■	■	■	■	■	■	■	■	■	■	■
Battery Charging	■	■	■	■	■	■	■	■	■	■	■	■
Bi-Directional	■	■	■	■	■	■	■	■	■	■	■	■
Inverter (DC/AC)	■	■	■	■	■	■	■	■	■	■	■	■
Inrush Current Limiters	■	■	■	■	■	■	■	■	■	■	■	■
Security	■	■	■	■	■	■	■	■	■	■	■	■
PFC Modules	■	■	■	■	■	■	■	■	■	■	■	■
<b>DC/DC</b>												
<b>Isolated DC/DC Converters</b>												
Fractional Brick	■	■	■	■	■	■	■	■	■	■	■	■
Digital Control	■	■	■	■	■	■	■	■	■	■	■	■
Industrial Pin-Out	■	■	■	■	■	■	■	■	■	■	■	■
DIN Rail	■	■	■	■	■	■	■	■	■	■	■	■
Intermediate Bus Converter	■	■	■	■	■	■	■	■	■	■	■	■
Low Power Unregulated	■	■	■	■	■	■	■	■	■	■	■	■
Wide Input Range 4:1	■	■	■	■	■	■	■	■	■	■	■	■
Surface Mount	■	■	■	■	■	■	■	■	■	■	■	■
DC/DC Military	■	■	■	■	■	■	■	■	■	■	■	■
DC/DC Railway	■	■	■	■	■	■	■	■	■	■	■	■
DC/DC Filters and Filter Modules	■	■	■	■	■	■	■	■	■	■	■	■
<b>Non Isolated POL Converters</b>												
Digital Control	■	■	■	■	■	■	■	■	■	■	■	■
Through Hole	■	■	■	■	■	■	■	■	■	■	■	■
Single In Line	■	■	■	■	■	■	■	■	■	■	■	■
Surface Mount	■	■	■	■	■	■	■	■	■	■	■	■
<b>Auxiliary DC Power Products</b>												
ATCA PIM Modules	■	■	■	■	■	■	■	■	■	■	■	■
RF / Power Amplifier	■	■	■	■	■	■	■	■	■	■	■	■
High Voltage	■	■	■	■	■	■	■	■	■	■	■	■
<b>Embedded DC/DC</b>												
Open Frame/Enclosed	■	■	■	■	■	■	■	■	■	■	■	■
Front End Bulk Power	■	■	■	■	■	■	■	■	■	■	■	■
Bi-Directional DC/DC into Aux DC Power products	■	■	■	■	■	■	■	■	■	■	■	■

Accessories	3M	Laird	MEAN WELL	Ohmite	Omron	Panasonic Industry	Schurter	TDK	TE Connectivity (Corcom, Schaffner)	Yageo KEMET
<b>Power Line EMI/RFI Filters</b>										
Single-Phase Filters	■	■	■	■	■	■	■	■	■	■
3-Phase Filters	■	■	■	■	■	■	■	■	■	■
<b>Thermal Management</b>										
DC Fans	■	■	■	■	■	■	■	■	■	■
AC Fans	■	■	■	■	■	■	■	■	■	■
Heatsinks	■	■	■	■	■	■	■	■	■	■
Thermal Materials	■	■	■	■	■	■	■	■	■	■
Thermal Adhesive/Compounds	■	■	■	■	■	■	■	■	■	■
<b>Wire/Cable</b>										
Power Cord	■	■	■	■	■	■	■	■	■	■
Smart Connector	■	■	■	■	■	■	■	■	■	■



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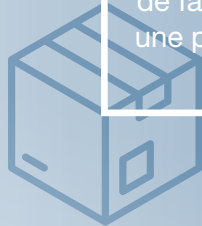
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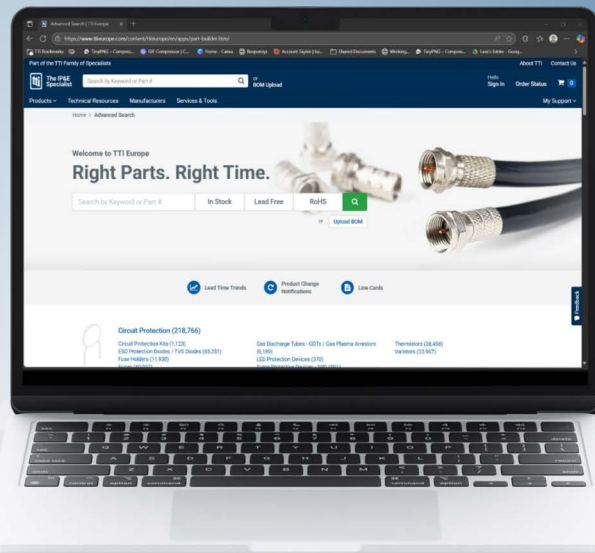
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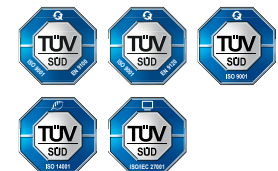
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