



**The IP&E
Specialist**

in Electronic Component Distribution

Line Card

TTI, Inc., – A Berkshire Hathaway Company



The IP&E Specialist

The Specialist in Electronics Component Distribution

Founded in 1971, TTI has steadily grown to become a world leading specialist distributor of electronic components. The company was founded on the premise that passive component purchasing could be made more efficient by offering product specialization, customer-driven service and proprietary supply chain solutions.

Why TTI?

- **Technical Experts** TTI's European team of field-based Sales Engineers and local Product and Technical Specialists are here to support you; from understanding component trends, sustainable sourceability and new product roadmaps, to in depth technical support for your design from our technical engineering experts.

- **Value Added Services** Connector assembly is one of the most important value-added services at TTI, Inc. – Europe. We are specialized in distributing manufacturer controlled and certified connectors and interconnect solutions from globally leading suppliers. Thanks to a large inventory level of connector components, TTI, Inc. – Europe can serve any market requirements.

- **Global Distribution Centers** Our European headquarters is located just outside of Munich, Germany in Maisach-Gernlinden. In total, we have 45.000m² of dedicated warehouse space and local sales and technical support in over 40 locations across Europe. TTI has more than 195.000m² of automated warehousing in North America, Europe and Asia. All are linked into a global warehouse management system that provides superior customer service and overall business efficiencies. Wherever you are in the world, TTI can support you. Year after year, customers rate our inventory availability, on-time delivery and accuracy among the very best in the industry – contact us today to find out what a true specialist has to offer.

- **Quality and Reliability** TTI's global warehouses are all ISO-registered and have received certification to the ISO 9001 and ISO 14001 Standards. TTI Europe is also certified to EN9120/EN9100, IECQ-CECC and ISO/IEC 27001 Standards. Additionally, our European sales branches are ISO 9001 certified. TTI has one global documentation system that ensures that every TTI branch and warehouse in the world follows the same processes.





80+
Suppliers



45.000 m²
Warehousing Space



One of the largest Autostore systems in Europe



40
Sales Locations

24/7
Available to Order Online



www.ttieurope.com



The IP&E Specialist

in Electronic Component Distribution

TTI distributes premier electronic component brands around the globe. Our Line Card includes all of our suppliers, brand products and product families.

3M Interconnect Solutions

A

- Abracon**
- 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
- Entrelec
- 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
 - Evox Rifa
 - NEC Tokin
- Nexensos
- Phycomp
- Pulse Electronics
 - Egston
 - Chilisin
 - Bothhand
 - Larsen
 - MagLayers
- Telemecanique Sensors
- X-Semi
- Yageo
 - Brightking
 - Vitrohm

Yazaki



Connectors

Automotive & Transportation Connectors	3M	Amphenol	Apitiv	EATON (Souriau-Sunbank)	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																						
Wire to Wire																						
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-Sunbank)	Harting	Harwin	ITT Cannon	JAE	JST	Kyocera AVX	Molex	Panduit	Phoenix Contact	Radiall	Rosenberger	Samtec	Smiths Interconnect	TE Connectivity
Backplane																	
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																	
Board-to-Board																	
Ball Grid Array (BGA)																	
Battery Connectors																	
Board Stacking																	
Breakaway Headers																	
Compression																	
Headers & Receptacles																	
Mezzanine/FPC																	
Power																	
SCSI																	
Shunts																	
Stacking																	
Device-to-Board																	
DIMM																	
DIP																	
PCMCIA																	
PGA																	
PLCC																	
RIMM/DIMM/SIMM																	
SIP																	
SO DIMM & RIMM																	
Test/Burn-In Sockets																	
Transistor																	

Cable & Wire/ Management	3M	Amphenol	EATON (Souriau-Sunbank)	Harting	HellermannTyton	JAE	JST	Kyocera AVX	Molex	Nexans	Panduit	Phoenix Contact	Radiall	Rosenberger	Samtec	Smiths Interconnect	Taoglas	TE Connectivity
Cable & Wire																		
Cable Assemblies																		
Coaxial (RF)																		
EV/HEV – High Power																		
Fiber Optic																		
Flat Flex (FFC, FPC)																		
Flat Ribbon																		
Modular – Flat																		
Multiple Conductor																		
Single Conductor (Wire)																		
Cable & Wire Management																		
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																		

Connectors

Industrial Factory & Process Automation

	3M	Amphenol	EATON (Souriau-Sunbank)	Harting	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													
By Market Segment													
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	Harting	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	Harting	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	Harting	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														

Connectors

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	Harting	Harwin	HellermannTyton	JAE	JST	Molex	Kyocera AVX	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)	Harting	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	Harting	Harwin	HellermannTyton	JAE	JST	Kyocera AVX	Molex	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	Harting	Harwin	JAE	JST	Kyocera AVX	Molex	Ommen	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, Cti, Kissling	Teledyne	Toshiba	Vishay
Relays														
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	■	■	■	■	■					■	■			
Circuit Breakers														
Magnetic Circuit Breakers				■						■				
Thermal Circuit Breakers				■						■				

Switches

	AlpsAlpine	APEM/IDEC/MEC	Amphenol - Piher	Bourns	C&K	Honeywell	Littelfuse	Omron	Panasonic Industry	Schurter	Standex Meder	TDK Electronics	TE Connectivity	Teledyne
ATEX						■								
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		■			■	■							■	

Passives – Capacitors

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	Ceramite	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	Drabirc	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							

Passives – Resistors

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																					
Trimmable																					
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																	

Circuit Protection & Electromagnetics

Protection Devices

	BC Components	Bourns	Chemi-Con	Dale	EATON	EPCOS	KOA	Kyocera AVX	Littelfuse	Murata	Panasonic Industry	Sensata - Gigavac	Schurter	TDK	Vishay	Yageo	YAGEO
Overcurrent																	
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																	
Over Voltage																	
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																	
Pyro Fuse																	
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
Protection										
Arrays										
ESD										
HiRel TVS										
TVS										
TVS Diodes Arrays										
Zener										
Standard										
Arrays										
PIN Diodes										
Schottky										
Small Signal										
Switching										
Rectifiers										
Bridge										
Standard										
Fast										
Ultrafast										
Schottky										
Silicon Carbide										
Dice Solutions										
Rectifiers										
High Voltage Diodes										
Schottky Diodes										
TVS Diodes										
Thyristors										
Modules										
Bridge										
Diode										
IGBT										
Thyristor										
MOSFET										
Silicon Carbide										

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

Integrated Circuits	Bourns	Kingbright	Littelfuse	Panjit	Toshiba	TT Electronics	Vishay
Integrated Circuits							
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
Evaluation and Demo Tools									
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
Visible LEDs								
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								
Visible LED Solutions								
Circuit Board Indicator SMD								
Circuit Board Indicator Through Hole								
Panel Mount Indicators SMD								
Panel Mount Indicators								
Infrared Emitter								
Infrared Emitters								
Infrared Emitters – High Power								
UV Solutions								
UV-A LED								
UV-B LED								
UV-C LED								
Optical Detectors and Sensors								
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								
Infrared Communication								
Infrared Receiver Modules								
IRDC Components								
Dice Solutions								
IR Emitters								
Photo Detectors								
Optocoupler Solution								
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								
ICs								
LED Driver								
Light Pipes and Accessories								
LED Holder								
LED Clips								
Light Pipes								
Lenses								
Modules and Displays								
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 / Piner Sensing Systems	Amphenol / SGX Sensortech	Amphenol / SSI Technologies	Amphenol / Talaire	Amphenol / Thermometrics	Amphenol / Wilcoxon	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	Kyocera AVX	Littelfuse (Western Automation)	Molex / Contintex	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	
Pressure																												
Board Mount Pressure																												
Disposable Medical Pressure Sensors																												
Dies																												
Altimeter/Barometric																												
Combination MEMS																												
Packaged Pressure																												
Pressure Switches																												
Force																												
Force																												
Load Cell/Load Pin																												
Torque																												
Flow																												
Air Flow																												
Liquid Flow																												
Flow Switch																												
Fluid Property Sensors																												
Turbidity																												
Motion, Speed & Position																												
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																												
Air Quality & Gas Sensing																												
CO2																												
VOC (COV)																												
Industrial Gas – Pellistor, InfraRed, Electro-Chemical, MEMS																												
Dust/Particle																												
Ionizer																												
Medical Gas Sensors (O2)																												
Pulse Oximetry SpO2																												
Temperature & Humidity																												
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, RF/Wireless Modules and Antennas

Sensors

	AlpsAlpine	Amphenol / All Sensors	Amphenol / Amphenol Advanced Sensors	Amphenol / i2s	Amphenol / Novasensor	Amphenol / Piher Sensing Systems	Amphenol / SGX Sensortech	Amphenol / SSI Technologies	Amphenol / TeIaire	Amphenol / Thermometrics	Amphenol / Wilcoxon	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	Kyocera AVX	Littelfuse	Molex / Contrinex	Murata	Omron	Panasonic Industry	Sensata Technologies (Crydom, Cynergy3, Alpax, BEI Sensors, Klixon, Sendyne)	TDK	TE Sensors (Measurement Specialties, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishay	Yageo KEMET	Yageo Nexensos	Yageo Telemeccanica Sensors
Optical																												
Ambient Light																												
Fibre Optic																												
PIR /Infrared																												
Matrix Sensors																												
Laser																												
Proximity – Optical																												
Solar																												
Time Of Flight (TOF)																												
Ultra Violet																												
Colour Sensors																												
Level Sensors																												
Liquid Level																												
Urea, Water (WIF/ WIF+WDS/WS), Diesel																												
Powder Level Sensors																												
Hydra-static Pressure Cells																												
Other																												
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)
Wireless Modules				
Bluetooth				
Cellular				
GNSS				
LoRa				
Sub-GHz Transceivers				
UWB				
Wi-Fi				
Zigbee/Thread/Matter				

Antennas

	Abrakon	Amphenol MCP	JAE	Kyocera AVX	Molex	Panasonic Industry	Radiall	Taoglas	TE (Linx Technology, Laird Connectivity)	Yageo PULSE
Embedded (ceramic/helix/stamp metal)										
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										
Internal (Cabled PCB/Flex)										
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										
External										
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										

Power Supplies

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
Internal/Embedded AC/DC												
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	■	■	■	■	■	■	■					
External - AC/DC												
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	■	■	■	■	■	■	■					
Specific Purpose												
Uninterruptible Power Supply (UPS)	■	■	■	■	■	■	■	■				
Battery Charging	■	■	■	■	■	■	■	■				
Bi-Directional	■	■	■	■	■	■	■	■				
Inverter (DC/AC)	■	■	■	■	■	■	■	■				
Inrush Current Limiters	■	■	■	■	■	■	■	■				
Security	■	■	■	■	■	■	■	■				
PFC Modules	■	■	■	■	■	■	■	■				
DC/DC												
Isolated DC/DC Converters												
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	■	■	■	■	■	■	■	■				
Non Isolated POL Converters												
Digital Control	■	■	■	■	■	■	■	■				
Through Hole	■	■	■	■	■	■	■	■				■
Single In Line	■	■	■	■	■	■	■	■				
Surface Mount	■	■	■	■	■	■	■	■			■	■
Auxiliary DC Power Products												
ATCA PIM Modules	■	■	■	■	■	■	■	■				
RF / Power Amplifier	■	■	■	■	■	■	■	■				
High Voltage	■	■	■	■	■	■	■	■				
Embedded DC/DC												
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
Power Line EMI/RFI Filters										
Single-Phase Filters								■	■	■
3-Phase Filters								■	■	■
Thermal Management										
DC Fans										
AC Fans						■				
Heatsinks				■						
Thermal Materials	■	■					■			
Thermal Adhesive/Compounds	■	■								
Wire/Cable										
Power Cord			■				■		■	
Smart Connector							■			



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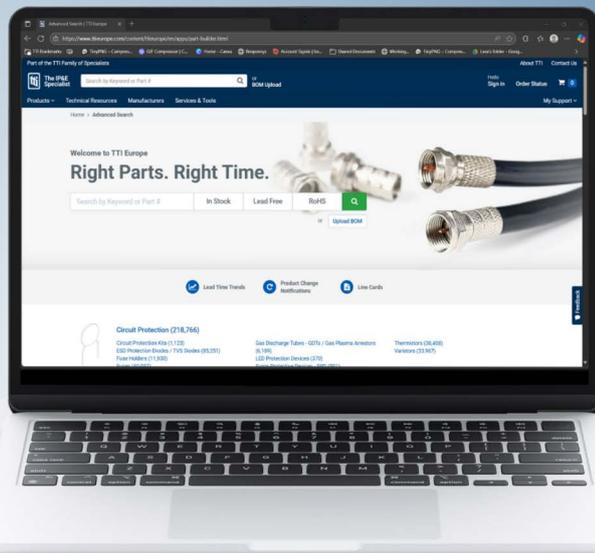
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