



**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
 - AirLB
 - Alden
 - ALL SENSORS
 - Amphenol Advanced Sensors
 - Anytek
 - Assembletech
 - Audio
 - Australia
 - Auxel
 - Canada
 - Conec
 - Connex
 - Elcab
 - FEP
 - Fiber Optics
 - FTG
 - i2s
 - India
 - Industrial
 - Limited
 - LTW
 - Martec
 - Matrix
 - Nexus
 - NovaSensor
 - PCD
 - Piher Sensing Systems
 - Positronic
 - RF
 - SGX SENSORTECH
 - Sincere
 - Sine
 - Socapex
 - Spectra Strip
 - SSI Technologies
 - SV Microwave
 - TELAire
 - Teradyne Connection (TCS)
 - TFC
 - Times Microwave
 - Thermometrics Ltd
 - Tuchel
- Apem**
 - IDEC
 - MEC
- Apitech**
- APTIV**
 - HellermanTyton
 - KUM

Bourns

Carlisle Interconnect Technologies

- Tri-Star
- Illinois Capacitor
- 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

- ITT Cannon**
- J**
- JAE**
- JST**
- K**
- Kingbright**
- Knowles**
 - Capacitor
 - CDE (Cornell Dubilier)
 - Syfer
 - DLI
 - Novacap
 - Voltronics

- KOA**
- KYOCERA AVX**
 - AB Electronics
 - American Technical Ceramics
 - Elco

- L**
- Laird**
- Lelon**
- Littelfuse**
 - C&K
 - Hamlin
 - IXYS
 - Littelfuse Automotive
 - Raychem
 - Teccor
 - US Sensor
 - Western Automation

- M**
- MEAN WELL**
- Molex**
 - Brad®
 - Contrinex
 - FCT

- Flamar®
- GWconnect™
- ISI
- mPm®
- Woodhead
- Murata**
 - Murata Power Solutions

- N**
- Nexans**
- Nichicon**
- O**
- OHMITE**
- OmniOn Power**
- Omron Electronic Component**
- Omron Industrial Automation**

- P**
- Panasonic**
 - Panasonic Electric Works
 - Panasonic Industry

- Panduit**
- Panjit**
- Phoenix Contact**
- PKC Group**
- PRECI-DIP**

- R**
- Radiall**
- Rosenberger**

- S**
- Samsung**
- Schurter**
- Sensata Technologies**

- Airpax**
- BEI Sensors**
- Cynergy3**
- Crydom**
- Klixon**

- Smiths Interconnect**
 - Hypertac
 - IDI
 - Sabritech

- Standex-Meder**
- Switchcraft**

- T**
- Taoglas**
- TDK**

- TE Connectivity**
 - AGASTAT ALCOSWITCH
 - AMP
 - AMP NETCONNECT
 - AST
 - AUGAT
 - AXICOM
 - BetaTHERM
 - CII Technologies
 - Corcom
 - Deutsch
 - 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
 - Power Partners
 - Semelab
 - Welwyn

- V**
- Vishay**
 - Angstrom
 - 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

- Vitrohm**

- W**
- Weidmüller**
- WIMA**

- Y**
- Yageo**
 - Kemet
 - Arcotronics
 - Evov Rifa
 - NEC Tokin
 - Nexensos
 - Phycomp
 - Pulse Electronics
 - Chilisin
 - Vitrom
- Yazaki**



Connectors

Automotive & Transportation Connectors

	3M	Amphenol	Aptiv	EATON (Souriau-Sunbank)	Harting	Harwin	HellermannTyton	ITT CANNON	JAE	JST	Kyocera AVX	Molex	Panduit	Phoenix Contact	PKC Group	Radiall	Rosenberger	Smiths Interconnect	TE Connectivity	Weidmüller	Yazaki	
Airbag Connectors																						
Automotive Ethernet																						
Automotive PCB Headers																						
Board-to-Board																						
Circular – Metal																						
Circular – Sealed																						
Circular – Unsealed																						
Contacts																						
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																						
RF – Coax/Microwave																						
RF – FAKRA/HSD/Mini-Fakra																						
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																						
By Market Segment																						
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	Preci-Dip	Radiall	Rosenberger	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	Smiths Interconnect	Taoglas	TE Connectivity	Weidmüller	
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

	Amphenol	Harting	Molex	Phoenix Contact	Rosenberger	Smiths Interconnect	TE Connectivity	Weidmüller
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	Carlisle/Tri-Star	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harting	Harwin	JAE	JST	Kyocera AVX	Molex	Phoenix Contact	Pulse	Radiall	Rosenberger	Smiths Interconnect	Taoglas	TE Connectivity	Weidmüller	
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																						
lpass (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																						
SCFP/XFP																						
TDP																						
USB/Mini USB/USB OTG																						

Memory Card Connectors

	3M	Amphenol	C&K Components	JAE	JST	Kyocera AVX	Molex	Panasonic	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	Carlisle/Tri-Star	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harting	HellermannTyton	Molex	Panduit	Preci-Dip	Radiall	Rosenberger	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	Carlisle/Tri-Star	EATON (Souriau-Sunbank)	ITT Cannon	JAE	JST	Kyocera AVX	Molex	Radiall	Rosenberger	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	Carlisle/Tri-Star	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harting	Harwin	HellermannTyton	JAE	JST	Molex	Kyocera AVX	Phoenix Contact	Rosenberger	Smiths Interconnect	Switchcraft	TE Connectivity	Weidmüller	
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	Weidmüller
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	Carlisle/Tri-Star	EATON (Souriau-Sunbank)	Glenair	ITT Cannon	Harting	Harwin	HellermannTyton	JAE	JST	Molex	Kyocera AVX	Panduit	Phoenix Contact	Preci-Dip	TE Connectivity	Weidmüller
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	Omron	Panasonic Electric Works	Phoenix Contact	Smiths Interconnect	TE Connectivity	Weidmüller
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	KEMET	Littelfuse - Ixys	Omron	Panasonic Electric Works	Phoenix Contact	Radiall	Standex Meder	Sensata - Crydom, Cynergy 3	TDK Electronics	TE Connectivity - Klovac, CUI, 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														
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 Electric Works	Schurter	Standex Meder	TDK Electronics	TE Connectivity	Teledyne
Switches														
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	Cornell Dubilier	Eaton (Cooper Bussmann)	KEMET	Kyocera AVX	Lelon	Murata	Nichicon	Panasonic Industry	TDK (EPCOS)	Vishay (BC components)
AC Motor Start	■		■							■
Axial Electrolytic	■		■		■	■		■	■	■
EDLC/Supercapacitor		■								
FlatPack Electrolytics	■		■							
Polymer	■		■		■	■		■	■	■
Radial Miniature	■		■		■	■		■	■	■
Screw Terminal	■		■		■	■		■	■	■
Snap-In	■		■		■	■		■	■	■
Surface Mount	■		■		■	■		■	■	■
High Rel	■		■							■

Ceramic	Cornell Dubilier	KEMET	Knowles (Syfer)	Kyocera AVX	Murata	Samsung	TDK	Tusonix	Vishay	BCcomponents	Ceramite	Vitramon	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	KEMET	Kyocera AVX	Nichicon	Panasonic Industry	TDK (EPCOS)	Vishay	Roederstein	WIMA
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	KEMET	Kyocera AVX	Panasonic Industry	Vishay	Sprague	Tantor
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	
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
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 Electric Works	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
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	Dale	EATON	EPCOS	KOA	Kyocera AVX	Littelfuse	Murata	Panasonic Industry	Schurter	TDK	Vishay
Overcurrent													
Axial (PICO) Fuses				■				■			■		
Automotive (Blade) Fuses													
Cartridge 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		■											■

EMI/RFI & RF

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

Frequency Control

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

Ferrites/ Inductors/ Transformers

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

Sound Devices

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

Design Tools

	Bourns	Dialight	Kingbright	Littelfuse	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	■	■	■	■	■	■	■	■

Diodes & Power Modules

	Bourns	Eaton	Kyocera AVX	Littelfuse	Panjit	TDK	Toshiba	TT Electronics	Vishay	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
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		■	■	■	■	■	■

Opto Electronic

	APEM	Cre 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 Through Hole	■			■		■		■
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				■		■		■
Modules and Displays								
Display Modules						■		■
LCD Displays						■		■
LED Displays						■		■
OLED Displays						■		■
Plasma Displays						■		■
7-Segment Displays						■		■
LED Dot Matrix Displays						■		■
LED Modules		■				■		■

Integrated Circuits

	Bourns	Kingbright	Littelfuse	Panjit	Toshiba	TT Electronics	Vishay
Integrated Circuits							
LED Driver			■		■		■
Logic Ics					■		■
Low Drop Out Regulators					■		■
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					■		■

Sensors

Sensors	All Sensors / Amphenol	AlpsAlpine	Amphenol Advanced Sensors	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	I2S / Amphenol	Kyocera AVX	Littelfuse (Western Automation)	Molex / Contrinex	Murata	Omron	Panasonic Electric Works	Panasonic Industry	Pier Sensing Systems / Amphenol	Sensata Technologies (Crydom, Cynergy3, Airpax, BEI Sensors, Klirkon)	SGX Sensortech / Amphenol	SST Technologies / Amphenol	Standex-Meder	TDK	TE Sensors (MEAS, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishey	Yageo Nexensos
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	All Sensors / Amphenol	Alps Alpine	Amphenol Advanced Sensors	Bourns	Eaton	Honeywell (Sensing and Safety Technologies, City Technology)	I2S / Amphenol	Kyocera AVX	Littelfuse (Western Automation)	Molex / Confinex	Murata	Omron	Panasonic Electric Works	Panasonic Industry	Pier Sensing Systems / Amphenol	Sensata Technologies (Crydom, Cynergy3, Airpax, BEI Sensors, Klixon)	SGS Sensortech / Amphenol	SSI Technologies / Amphenol	Stander-Meder	TDK	TE Sensors (MEAS, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishay	Yageo Nexensos
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																								
Light Curtain Safety – Factory Automation																								
Magnets																								
Medical Sensor Cable Assemblies/Pulse Oximetry																								
Sensor Development Boards																								

RF/Wireless Modules	Amphenol MCP	Kyocera AVX	Murata	Panasonic Industry
LoRa				
Wi-Fi				
Bluetooth				
LTE				
UWB				

Antennas	Abracon	Amphenol IMCP	JAE	Kyocera AVX	Molex	Pulse	Radiall	Taoglas	TE Linx Technology, Laird	Connectivity
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)	Amphenol SOCAPEX	APEM / IDEC	Flex Power Modules	MEAN WELL	Murata Power Solutions (Callex)	OmniOn Power	Omron Industrial Automation	Phoenix Contact	TDK	TT Electronics (Power Partners)	Vishay	Weidmüller
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	■				■	■	■				■		
I2C PMBus Control/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 Power Products													
ATCA PIM Modules				■		■	■						
RF / Power Amplifier	■			■		■	■						
High Voltage	■				■	■	■						
Embedded DC/DC													
Open Frame/Enclosed				■		■	■						
Front End Bulk Power	■					■	■						

Accessories

Accessories	3M	Ebm-papst	KEMET	Laird	MEAN WELL	Ohmite	Omron	Panasonic Industry	Schaffner	Schurter	TDK	TE Connectivity / Corcom
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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