



**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?

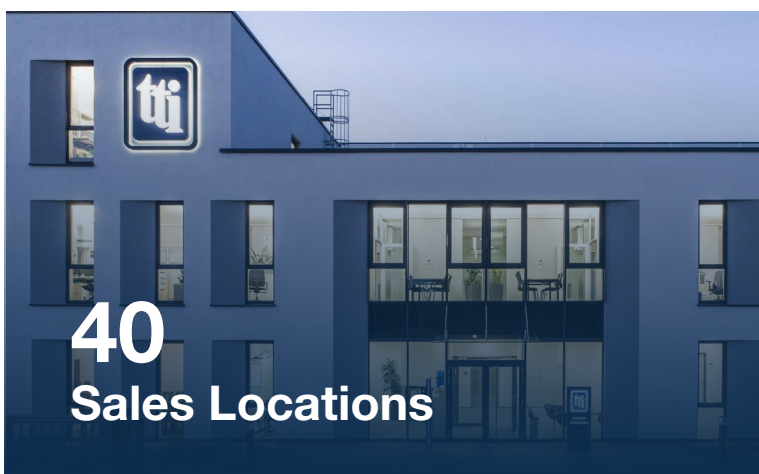
• **Technical Experts** TTI's European team of field-based Sales Engineers and local Product and Technical Specialists are here to support you; from understanding component trends, sustainable sourceability and new product roadmaps, to in depth technical support for your design from our technical engineering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





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
Evov Rifa
NEC Tokin
Nexensos
Phycomp
Pulse Electronics
Egston
Chilisin
Bothhand
Larsen
MagLayers
Telemechanique Sensors
X-Semi
Yageo
Brightking
Vittrohm

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	Nexans	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)	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	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																			
Ipss (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														

Connectors

RF/Coaxial/ Microwave

	3M	Amphenol	EATON (Souriau-Sunbank)	ITT Cannon	JAЕ	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	Harwin	HellermannTyton	JAЕ	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)	Harwin	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	Harwin	HellermannTyton	JAЕ	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	Harwin	JAЕ	JST	Kyocera AVX	Molex	Omnron	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, Citi, 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	Leclon	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	Tusconix	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	Drabrick	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	Angstrom	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

	Abrakon	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

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

Ferrites/ Inductors/ Transformers

	Abrakon	Bourns	Chemi-Con	Eaton (Colltronics)	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 / Plier 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
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 – Lead																											
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

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 / Contrinex	Murata	Omron	Panasonic Industry	Sensata Technologies (Crydom, Cynergy3, Alipax, BEI Sensors, Klixon, Sendyne)	TDK	TE Sensors (Measurement Specialties, First Sensor, SMI, Jaquet, AST)	TT Electronics	Vishay	Yageo KEMET	Yageo Nexensos	Yageo Telemecanique 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 (Linux Technology, Laird Connectivity)
Wireless Modules				
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 (Linux 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

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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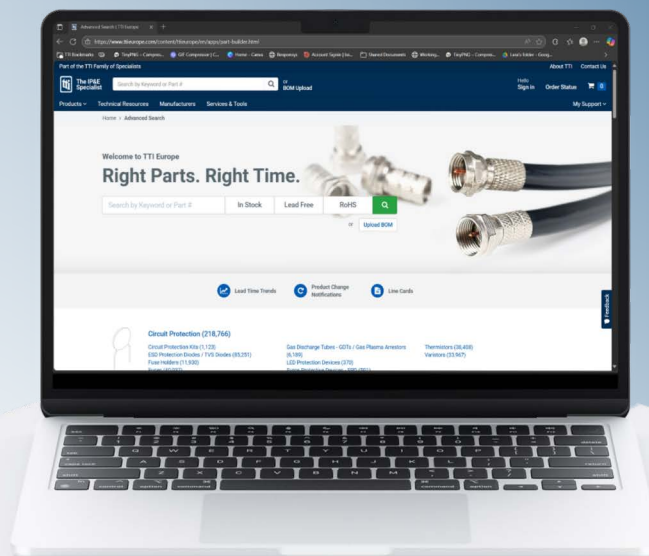
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