



**The IP&E
Specialist**

Ihr Spezialist für den Vertrieb elektronischer Baukomponenten Line Card – Deutsch

TTI, Inc., – A Berkshire Hathaway Company



The IP&E Specialist

Der Spezialist für den Vertrieb von elektronischen Bauteilen

TTI wurde 1971 gegründet und hat sich kontinuierlich zu einem weltweit führenden Spezialdistributor für elektronische Bauteile entwickelt. Das Unternehmen wurde gegründet, um den Einkauf passiver Komponenten durch Produktspezialisierung, kundenorientierten Service und eigene Lieferkettenlösungen effizienter zu gestalten.

WARUM TTI?

• **Technische Experten** TTIs europäisches Team von Vertriebsingenieuren im Außendienst und lokalen Produkt- und Technikspezialisten ist immer für Sie da, um Sie zu unterstützen: wir helfen Ihnen, Trends im Bereich der Komponenten zu verstehen und sind Experten für nachhaltige Beschaffbarkeit und neue Produkt-Roadmaps. Zudem bieten unsere technische Experten Ihnen fundierte technische Unterstützung für Ihr Design.

• **Value Added Services** Die Konfektionierung von Steckverbindern ist eine der wichtigsten Dienstleistungen im Bereich Value Added Services von TTI, Inc. in Europa. Wir sind spezialisiert auf den Vertrieb von herstellergeprüften und zertifizierten Steckverbindern und Verbindungslösungen von weltweit führenden Anbietern. Dank eines großen Lagerbestands an Steckerkomponenten kann TTI, Inc. - Europe jede Marktanforderung bedienen.

• **Globale Distributionszentren** Unser europäischer Hauptsitz befindet sich in Maisach-Gernlinden, in der Nähe von München. Insgesamt verfügen wir über 45.000 m² Lagerfläche und lokalen Vertriebs- und technischen Support an über 40 Standorten in Europa. TTI verfügt über mehr als 195.000 m² automatisierte Lagerfläche in Nordamerika, Europa und Asien. Alle Zentren sind in ein globales Lagerverwaltungssystem eingebunden, das hervorragenden Kundenservice und effiziente Abläufe im gesamten Unternehmen gewährleistet. Wo auch immer Sie sich in der Welt befinden, TTI kann Sie unterstützen. Jahr für Jahr bewerten Kunden unsere Bestandsverfügbarkeit, Termintreue und Genauigkeit als die besten in der Branche - kontaktieren Sie uns noch heute, um herauszufinden, was ein echter Spezialist zu bieten hat.

• **Qualität und Zuverlässigkeit** Die weltweiten Lager von TTI sind alle ISO-registriert und wurden nach den Normen ISO 9001 und ISO 14001 zertifiziert. TTI - Europe ist außerdem nach den Normen EN9120/EN9100, IECQ-CECC und ISO/IEC 27001 zertifiziert. Außerdem sind unsere europäischen Vertriebsniederlassungen nach ISO 9001 zertifiziert. TTI verfügt über ein globales Dokumentationssystem, das sicherstellt, dass alle TTI-Niederlassungen und -Lager auf der ganzen Welt die gleichen Prozesse anwenden.





80+
Lieferanten



45.000 m²
Lagerfläche



**TTI hat eines der größten
Autostore-Systeme in Europa**



40
Vertriebsniederlassungen

**Onlinebestellung
rund um die Uhr**



www.ttieurope.com



**The IP&E
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Ihr Spezialist für den Vertrieb elektronischer Baukomponenten

TTI vertreibt weltweit führende Marken für elektronische Komponenten. Unsere Line Card umfasst alle unsere Lieferanten, Markenprodukte und Produktfamilien.

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

Telemecanique Sensors

X-Semi

Yageo

Brightking

Vitrohm

Yazaki



Steckverbinder

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	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																		

Steckverbinder

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														

Steckverbinder

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

Relays & Circuit Breakers

	IDEC	Littelfuse	Omron	Panasonic Industry	Phoenix Contact	Radiall	Standex Meder	Sensata - Crydom, Cynergy 3	Sensata - Gigavac	TDK Electronics	TE Connectivity - Killovac, CII, 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 - Piber	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														

Passive Bauelemente – Kondensatoren

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											
FiatPack Electrolytics											
Polymer											
Radial Miniature											
Screw Terminal											
Snap-In											
Surface Mount											
High Rel											

Ceramic

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

Film & Mica

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

Tantalum

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

Passive Bauelemente – Widerstände

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

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

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

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

Stromkreisschutz & Induktivitäten

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 Leded 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 (Date)
Crystals								
Oscillators								
Piezo Sound Devices								
Resonators								
Tuning Forks								

Ferrites/ Inductors/ Transformers	Abracon	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				

Diskrete Halbleiter

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								

Sensoren

Sensors	AlpsAlpine	Amphenol / All Sensors	Amphenol / Amphenol Advanced Sensors	Amphenol / 12s	Amphenol / Novasensor	Amphenol / Piber 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	Litefuse (Western Automation)	Molex / Contrinex	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	AlpsAlpine	Amphenol / All Sensors	Amphenol / Amphenol Advanced Sensors	Amphenol / i2s	Amphenol / Novasensor	Amphenol / Pher Sensing Systems	Amphenol / SOX Sensortech	Amphenol / SSI Technologies	Amphenol / Teltair	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, Airpax, 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 (Linx 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 (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	Advanced Energy (Artesyn, Excelsys, SL Power, Ultravoit)	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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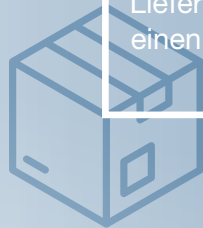
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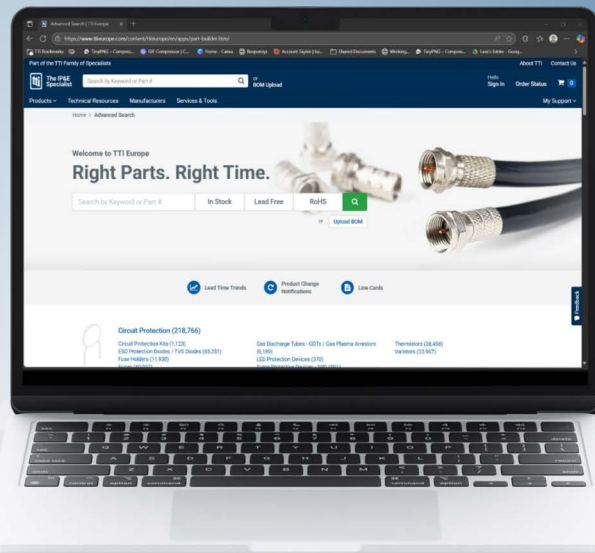
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