



ttieurope.com

The Specialist in Electronic Component Distribution

Line Card





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Why Choose TTI?

Why Buy from TTI?

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 specialisation, customer-driven service and proprietary supply chain solutions.

Product Knowledgeable Experts

Our unique specialisation enables us to provide significantly better product knowledge to support manufacturing from design chain to supply chain. TTI's commitment to this specialty and our customers is as dedicated today as always.

Broader and Deeper Inventories

TTI maintains extensive inventories, stocking more than 2M part numbers globally - that's more connector, passive, electromechanical, discrete, sensor and power supply inventory available than from any other source.

Leading Edge Technology Products

TTI partners with manufacturers that lead the industry in new component technologies and can help solve any design challenge. We ensure the very latest and most technologically-advanced products are readily available from stock.

Supply Chain Excellence

From technical application advice to customised logistical solutions; TTI can add value throughout the supply chain by reducing acquisition costs, improving material flow through forecast analysis, provide safety stock and reduce receipt handling through consolidated shipments. We provide the BOM coverage necessary to deploy comprehensive supply chain solutions that reduce total cost of ownership and mitigate line down risk.

Global Distribution Centres

Our European headquarters is located just outside of Munich, Germany in Maisach-Germlinden. In total, we have 22,000m² of dedicated warehouse space and local sales and technical support in over 40 locations across Europe.

TTI has more than 111,000m² 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.

Quality and Reliability

TTI is the first distributor to have all global warehouse locations ISO registered and certified to ISO 9001 and ISO 14001 Standards. TTI Europe is also certified to EN9120/EN9100, IECQ-CECC and ISO/IEC 27001 Standards. Additionally, all of 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.

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.



**Global Distribution
Centres** with more than
111,000m² of automated
warehousing in North
America, Europe
and Asia.





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The Specialist in Electronic Component Distribution

3M

A

Amphenol

Advanced Sensors
Aerospace
AFCI Electronics
AirLB
Alden
Amphenol Limited
Audio
Canada
Connex
Fahrzeugelektrik Pirna (FEP)
Fiber Optics
Industrial
LTW
Matrix
Nexus
PCD
RF
Sine
Socapex
Spectra Strip
SV Microwave
Teradyne Connection (TCS)
TFC
Tuchel
Apem*
API Delevan
API Technologies
Spectrum Control
Artesyn
ATC
AVX
Elco

B

Bourns

Komatsulite

C

C&K Components Carlisle Interconnect Technologies

Tri-Star
CTS
Tusonix
CDE (Cornell Dubilier)
Illinois Capacitor

D

Delphi

FCI Automotive
HellermannTyton

E

EATON

Bussmann
Coiltronics
PowerStor
EBM Papst*
**Esterline Connection
Technologies**
Souriau
Sunbank
Ericsson

G

GE Embedded Power Glenair

H

Harting*
Harwin
Honeywell

I

ITT Cannon

J

JST
JAE*

K

KEMET
Arcotronics
Evox Rifa
NEC TOKIN
Kingbright
Knowles Capacitors
Syfer
DLI
Novacap
Voltronics
KOA

L

Lelon Littelfuse

Hamlin
Littelfuse Automotive
Raychem
Teccor
TE Connectivity Circuit Protection

M

MEAN WELL

Molex
Brad*
FCT
Flamar*

GWconnect™

mPm®

Woodhead

Murata

Murata Power Solutions
TOKO

N

N2Power

Nexans

Filotex
Nichicon

O

OHMITE

Arcol
**Omron Electronic
Components**

P

**Panasonic Automotive
& Industrial Devices**
Panasonic Electric Works
Panduit
Phoenix Contact
PKC Group
PRECI-DIP
Pulse Electronics

R

Radiall

S

Samsung
Samtec*
Schaffner*
Schurter*
Smiths Interconnect
Hypertac
IDI
Standex-Meder

T

TDK
EPCOS
TE Connectivity
AGASTAT
ALCOSWITCH
AMP
AMP NETCONNECT
AST
AUGAT
AXICOM
CII Technologies
Corcom
Deutsch

ELCON

HARTMAN

HTS

KILOVAC

MADISON CABLE

Measurement Specialties

MICRODOT

NANONICS

OEG

Polamco

Potter & Brumfield

SCHRACK

Toshiba

TT Electronics

AB Elektronik

BI Technologies

IRC

Optek

Semelab

Welwyn

V

Vishay

Angstrohm

BCcomponents

Beyschlag

Cera-Mite

Dale

Draloric

Electro-Films

Huntington/Milwaukee

MCB

Roederstein

Semiconductors

Sfernice

Siliconix

Spectrol

Sprague

Techno

Thin Film

Vitramon

Vishay Precision Group

Vitrohm

W

WIMA

Weidmüller

Y

Yageo

Phycomp



ttieurope.com

Broadest and Deepest Inventory

3M

Amphenol®

API Delevan

api
technologies corp.

ARTESYN
EMBEDDED TECHNOLOGIES

a AMERICAN
TECHNICAL
CERAMICS

AVX
A KYOCERA GROUP COMPANY

BOURNS®

C&K

CARLISLE
TRI-STAR

CDE CORNELL
DUBILIER

DELPHI

EATON
Powering Business Worldwide

ERICSSON
CHANNEL PARTNER

Esterline®
Connection Technologies
SOURIAU

GE
GE
Critical Power

Glenair®

HARWIN
INTERCONNECT DESIGN & MANUFACTURE

HellermannTyton

Honeywell

Cannon
ITT Industries
Engineered for life

JST

Electronic Components
KEMET
CHARGED

Kingbright
Kingbright Electronic Europe GmbH

knowles
DLI-Hewlett-Packard-Voltronics

KOA
Your Positive Solution

Leob

Littelfuse®

MW
MEAN WELL

molex
one company > a world of innovation

muRata
INNOVATOR IN ELECTRONICS

N2Power™

Nexans
BRINGS ENERGY TO LIFE

nichicon

OHMITE

OMRON®

Panasonic

PANDUIT™

PHENIX CONTACT
INSPIRING INNOVATIONS

PKC GROUP

precip-dip

Pulse
Electronics

Radiall

SAMSUNG
SAMSUNG
ELECTRO-MECHANICS

smiths interconnect

**Standex
MEDER**
ELECTRONICS

TDK

TE
connectivity
AUTHORIZED DISTRIBUTOR

TOSHIBA
Leading Innovation >>>

Tt Electronics

TUSONIX

VISHAY

**VISHAY FOIL
RESISTORS**
AVPG Brand

VITROHM

Weidmüller

WIMA

YAGEO
Innovative Service Around the Globe



Connectors

RF/Coaxial/Microwave

	3M	Amphenol	Carlisle/Tri-Star	ITT Cannon	JST	Molex	Radiall	Souriau	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									

Wire-To-Board/ Wire-To-Wire

	3M	Amphenol	AVX	Delphi	Glenair	Harwin	JST	Molex	Phoenix Contact	Smiths Interconnect	Souriau	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													

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

	3M	Amphenol	AVX	Harwin	ITT Cannon	JST	Molex	Omron	Panasonic	Preci-Dip	Radiall	Smiths Interconnect	Souriau	TE Connectivity
Backplane														
10 Gb/s+ Solutions														
2.00mm														
Assemblies (Backplane)														
ATCA/MicroTCA														
Cable Assemblies														
Card Edge														
Compact PCI														
DIN 41612 (Eurocard)														
Fibre 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														

Terminal Blocks

	Amphenol	API (Spectrum Control)	Molex	Phoenix Contact	Souriau	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							

Connectors

Memory Card Connectors

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

Speciality Connectors

	3M	Amphenol	API (Spectrum Control)	AVX	Carlisle/Tri-Star	Delphi	Glenair	Harwin	HellermannTyton	ITT Cannon	JST	Molex	Phoenix Contact	Smiths Interconnect	Souriau	TE Connectivity	Weidmüller
Automotive																	
Battery																	
COTS																	
EMI Shielded																	
Filtered																	
Harsh Environment																	
Hermetic																	
High Voltage																	
Industrial																	
LED Connector																	
Micro Miniature/Nano																	

Wire & Board Management/Accessories

	3M	Amphenol	AVX	Carlisle/Tri-Star	Glenair	Harwin	HellermannTyton	ITT Cannon	JST	Molex	Panduit	Phoenix Contact	Preci-Dip	Souriau	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 & Ribbons																
RFI Clips & Fingers																
Shorting Links																
Solderless Terminals																
Splices																
Stainless Steel Accessories																
Test Points																
Tooling																
Wire & Cable																
Wire Ducting																

Input/Output

	3M	Amphenol	API (Spectrum Control)	AVX	Carlisle/Tri-Star	Delphi	Glenair	Harwin	ITT Cannon	JST	Molex	Omron	Phoenix Contact	Radiall	Smiths Interconnect	Souriau	TE Connectivity	Weidmüller
1394 & 1394b																		
Audio																		
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																		
¼" Phone (T Series, M Series & Jacks)																		
¼" Phone "SwitchPlug"																		
3.5mm PCB																		
AC PDN																		
AC Series XLR Cable																		
AC Series XLR Metal "Z"																		
Chassis Mount																		
AC Series XLR PBC Chassis Mount																		
AC Series Dual ¼" XLR																		
AC Series XLR Thermoplastic Chassis Mount																		
Accessories																		
AX Series XLR Cable																		
BNC 75Ω Connectors																		
C Type Combo ¼" XLR PCB																		
EP/AP Series High Power																		
SP High Current Loudspeaker																		
MP Multipin Series																		
RCA Series																		
XLRnet Series Cable																		
XLRnet Series PCB/Chassis Mount																		



Connectors

Military Circular

	Amphenol	Glenair	ITT Cannon	Smiths Interconnect	Souriau	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 Aluminium						
MIL-DTL-38999 Series III Firewall						
MIL-DTL-38999 Series III Lanyard						
AS50151						
MIL-DTL-55302						
MIL-C-81511						
MIL-DTL-83723						
Hermetics						
VG95234						
VG95328						
VG96912						
VG96929						

Cable & Wire Management

	3M	Amphenol	Delphi	HellermannTyton	JST	Molex	Nexans	Panduit	Phoenix Contact	Radiall	Smiths Interconnect	Souriau	TE Connectivity	Weidmüller
Cable & Wire														
Cable Assemblies														
Coaxial (RF)														
Fibre Optic														
Flat Flex (FFC, FPC)														
Flat Ribbon														
Modular - Flat														
Multiple Conductor														
Single Conductor (Wire)														
Cable & Wire Management														
Accessories														
Bushings, Grommets														
Cable & Cord Grips														
Cable Ties														
Clamps & Clips														
Cold Shrink Tape & Tubing														
Heat Shrink Boots & Tubing														
Labels & Markers														
Solid Tubing & Sleeving														
Spiral Wrap & Expandable Sleeving														
Splice Enclosures & Protection														

Military Connectors & Accessories

	Amphenol	AVX	Carlisle/Tri-Star	Glenair	HellermannTyton	ITT Cannon	Molex	Panduit	Preci-Dip	Radiall	Smiths Interconnect	Souriau	TE Connectivity
Backshells & Accessories													
Coax/RF													
Contacts													
D-Subminiature													
Discrete Sockets													
Filtered Audio Connector													
Micro D													
Rack & Panel													
Sealed Plugs													
SV Microwave													
Terminal Blocks													
Terminals													
Tools													

Transportation Connectors

	3M	Amphenol	AVX/Elco	Delphi	Glenair	Harwin	HellermannTyton	ITT Cannon	JST	Molex	Omnron	Panduit	Phoenix Contact	PKC Group	Radiall	Smiths Interconnect	Souriau	TE Connectivity
By Product Type																		
Board-to-Board																		
Circular - Metal																		
Circular - Sealed																		
Circular - Unsealed																		
Contacts																		
Diving																		
EV/HEV - High Power																		
EV/HEV - Charging Couplers																		
Fibre Optic Products																		
FFC / FPC Connectors																		
Fuse / Lamp Holders																		
Input / Output																		
Multimedia / Convenience Port																		
Memory Card																		
Modular Blocks																		
Rail - High Reliability Power																		
Relay Holders																		
RF - Coax / Microwave																		
RF - FAKRA / HSD																		
Rectangular - Heavy-Duty																		
Rectangular - Sealed																		
Rectangular - Unsealed																		
Automotive Sensor Interconnects																		
Solderless Terminal																		
Terminal Blocks																		
Tooling																		
Wire & Cable																		
Wire Management - Labels - Cable ID																		
Wire-to-Board																		
Wire-to-Wire																		
By Market Segment																		
Agriculture																		
Automotive																		
Commercial Vehicles																		
Construction & Mining																		
Electric / Hybrid Vehicles																		
Rail / Mass Transit																		
Marine																		
Military / Aerospace																		
Recreational Vehicles																		

Electromechanical

Relays & Circuit Breakers

	KEMET	Omron	Panasonic	Standex Meder	TE Connectivity
Relays					
Automotive		■	■	■	■
Communication	■				
Contactors		■	■	■	■
Control		■	■		■
Counters		■			
Crystal Can					■
Definite Purpose Contactors		■	■		■
DIN Rail Mounted		■	■		■
Forcibly-Guided Contact		■	■		■
General Purpose		■	■		■
High Voltage		■	■	■	
Industrial DC & AC		■	■		■
Input/Output Modules		■	■		■
Magnetic Latching		■	■		■
Microwave		■	■	■	
Military/Space					■
Miniature PCB		■	■		■
MOSFET		■	■		
Panel/Plug-In		■	■		■
Power		■	■		■
Reed				■	■
Safety		■	■		■
Signal	■	■	■	■	■
Sockets		■	■		■
Solid State		■	■		■
Time Delay		■			■
Circuit Breakers					
Magnetic Circuit Breakers					■
Thermal Circuit Breakers					■

Switches

	C&K Components	Honeywell	Omron	Panasonic	Standex Meder	TE Connectivity
Analog	■	■				■
Counters/Hour Meters		■				
Detection/Navigation	■			■		
Detector	■			■		
DIP	■					■
Encoder		■		■		
Fader				■		
Industrial	■	■	■	■		■
Keylock/Switchlock						■
Keypad	■	■				■
Knobs			■			■
Limit				■		
Mil/Aero/Space Grade Level	■	■				
Pushbutton	■	■	■	■		■
Pushwheel/Thumbwheel	■	■	■	■		■
Rocker	■					■
Rotary		■	■	■		■
Safety		■	■			■
Selector	■					
Slide	■	■				■
Snap Action	■	■	■	■		
Special Purpose		■	■	■	■	
Tactile	■					■
Toggle/Paddle	■	■	■	■		■
Wireless Limit		■				



Passives - Resistors

Film

	Bourns	KOA	OHMITE	Panasonic	TE Connectivity	TT Electronics	BI Technologies	IRC	Welwyn	Vishay	Angstrom	BCcomponents	Dale	Electro-Films	Huntington/Milwaukee	Sternice/MTCB	Techno	Thin Film	Vishay Precision Group	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			■		■	■	■	■	■	■										■

Network

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

Potentiometers/ Trimmers

	Bourns	Honeywell	KOA	Murata	OHMITE	Panasonic	TE Connectivity	TT Electronics (BI Tech)	Vishay	BCcomponents	Dale	Sternice/MTCB	Spectrol	Vishay Precision Group
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

	ATC	Bourns	KOA	OHMITE	Panasonic	TE Connectivity	TT Electronics	BI Technologies	IRC	Welwyn	Vishay	Dale	Huntington/Milwaukee	Sternice/MTCB	Thin Film	Vishay Precision Group	Yageo
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																■	■

- Lead-free only parts available
- Lead & Lead-free compliant parts available
- ▲ Lead-only compliant parts available

Passives - Capacitors

Aluminium

	AVX	Cornell Dubilier	Eaton (Cooper Bussmann)	KEMET	Lelon	Murata	Nichicon	Panasonic	TDK (Epcos)	Vishay (BCcomponents)
AC Motor Start										
Axial Electrolytic		●								●
EDLC/Supercapacitor	■									
FlatPack Electrolytics		▲								
Polymer										
Radial Miniature		●								●
Screw Terminal										
Snap-In										
Surface Mount										

Ceramic

	API Technologies	AVX	ATC	Cornell Dubilier	KEMET	Knowles (Sfer)	Murata	Samsung	TDK	Tusconix	Vishay	BCcomponents	Ceramate	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										■					

Film & Mica

	API Technologies	AVX	Cornell Dubilier	KEMET	Nichicon	Panasonic	TDK (Epcos)	Vishay	BCcomponents	Draloric	Roederstein	WIMA
Film												
Motor Run												
Polyester		■	■	●	■		■		■		■	■
Polypropylene	■	■	■	●	■		■	■	■	■	■	■
Power Film			■	■				■	■			
Snubber			■	■			■	■	■			■
Suppression X-Y (Safety Cap)	■		■	■			■	■	■	■	■	■
Surface Mount		■	■	■			■					■
Mica												
Metal Clad			●									
Mica			●									
Surface Mount			●									

Tantalum

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

- Lead-free only parts available
- Lead & Lead-free compliant parts available
- ▲ Lead-only compliant parts available



Circuit Protection & Electromagnetics

Protection Devices

	AVX	Bourns	Eaton	KOA	Littlefuse	Murata	Panasonic	TDK	EPCOS	Vishay	BC Components	Dale
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

	Amphenol	API Technologies (Spectrum Control)	AVX	KEMET	Molex	Murata	Panasonic	Pulse	TDK	EPCOS	TE Connectivity	Tusonix (CTS)	Yageo
EMI/RFI Filters													
Feed-Thru Filters													
RF/Microwave Filters													
SAW Filters													
Surface Mount Filters													
RF/Wireless Antennas													

Ferrites/ Inductors/ Transformers

	API Delevan	ATC	AVX	Bourns	Eaton (Colltronics)	KEMET	KOA	Murata	Panasonic	Pulse	Samsung	TDK	EPCOS	TT Electronics (BI Tech)	Vishay	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

	AVX	Murata	Panasonic	TDK
Buzzer				
Microphone				
Receiver				
Ringer				
Sensor				
Sounder				
Speaker				

Frequency Control

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

- Lead-free only parts available
- Lead & Lead-free compliant parts available
- ▲ Lead-only compliant parts available

Discretes

Discrete Semiconductors

	AVX	Bourns	KOA	Littelfuse	Panasonic	Toshiba	TT Electronics (Semelab)	TT Electronics (Oplek)	Vishay
Diodes									
Arrays		■		■	■	■	▲		■
Schottky				■	■	■	▲		■
Small Signal		■		■	■	■	■		■
Zener		■			■	■	▲		■
TVS Diodes	■			■			▲		■
TVS Diodes Arrays		■	■	■					■
Bare Die Products and Wafers									■
Rectifiers									
Bridge		■							■
Standard		■			■		▲		■
Fast							■		■
Ultrafast							▲		■
Schottky	■	■		■	■	■			■
Thyristors									
Protection		■		■					■
Switching		■		■					■
Sidac		■		■					■
SCR		■		■					■
Transistors									
Bipolar					■	■	▲		■
Small Signal					■	■	▲		■
Mosfets									
Low Voltage					■	■	▲		■
Mid-voltage									■
High Voltage					■	■	▲		■
Automotive Qualified					■	■			■
Mil Qualified							▲		■
Modules									
Bridge									■
Diode									■
IGBT				■					■
Thyristor				■					■
MOSFET									■

Optoelectronics

	Kingbright	Panasonic	Toshiba	TT Electronics (Oplek)	Vishay
Optocouplers					
Standard Optocouplers	■		■		■
IC Couplers			■		■
High Voltage Couplers			■		■
Solid State Relays			■		■
Infrared Components					
Optical Sensors	■				■
Ambient Light - Proximity Sensors					■
Ambient Light Sensors					■
Proximity Sensors					■
UV Sensors (A&B)					■
Bio Sensors					■
RGB Sensors	■				■
Reflective Sensors	■				■
Transmissive Sensors	■				■
Infrared Emitters	■				■
Photo Detectors (Diode/Transistors)	■				■
Infrared Receiver Modules					■
Visible LEDs					
LEDs - Indication	■	■	■	■	■
LEDs - Illumination <1W	■	■	■	■	■
LEDs - Illumination >1W	■	■	■	■	■
LED Modules	■				■
LED Displays	■				■
PCB Indicators	■				■
Seven-Segment Displays	■				■
OPTO Solutions					
Custom Specific Solutions				■	■
LED Drivers			■		■
OLED Displays					■
LCD Displays					■
Infrared Touch Panels					■

ICs - Power And Linear

	Toshiba	TT Electronics (Semelab)	Vishay
Analogue Switches & Multiplexers			
Logic ICs	■		■
Motor Control Drivers			■
Diodes		▲	■
Transistors		▲	■
Voltage Regulators		▲	■
DC/DC Converters			■
Smart Load Switches			■

- Lead-free only parts available
- Lead & Lead-free compliant parts available
- ▲ Mil-Spec Discretes

Sensors

Power Supplies

Sensors

	Amphenol Advanced Sensors	AVX	Bourns	Honeywell	KEMET	KOA	Littelfuse	Molex	Murata	Omron	Panasonic	Standex Meder	TDK (EPCOS)	TE Connectivity Sensor Solutions	TT Electronics	Vishay
Motion/Speed/Position																
Accelerometer																
Encoder/Rotary																
Gyroscope																
Inclinometer/Tilt																
Inertial Measurement Unit																
Liquid Level																
Motion/Gesture/Displacement																
Proximity																
Shock/Vibration																
Speed/Position/Magneto Resistive/Resolver																
Ultrasonic																
Optical																
Ambient Light																
Fibre Optic																
Infrared/Human Presence Detection																
Laser																
Photodiodes/Phototransistors/Photoelectrics																
Solar																
Ultra Violet																
Pressure/Force/Flow/Gas																
Air/Gas/CO ₂																
Altimeter/Barometric																
Combination MEMS																
Dust/Ionizer																
Flow																
Force																
Fluid Property																
Load Cell/Load Pin																
Pressure																
Pressure Wireless																
Torque																
Turbidity																
Thermal/Humidity																
Combination MEMS																
Heaters																
Humidity																
NTC Thermistor																
Probes & Assemblies																
PTC Thermistors																
RTD																
Thermocouples																
Thermopiles/Human Presence Detection																
Other																
Capacitive Touch																
Colour Sensors - Factory Automation																
Current Sensors																
Inductive Sensors - Factory Automation																
Light Curtain Safety - Factory Automation																
Magnets																
Medical Sensor Cable Assemblies																
Oil Sensors																
Piezo Film Sensors																
Powder Level Sensors																
Pulse Oximetry Probes																
Urea, Water (WIF/WIF+WDS/WS), Diesel																
Wireless Sensors																

Power Supplies

	Artesyn	Ericsson Power Modules	GE Embedded Power	MEAN WELL	Murata Power Solutions	N2Power
Internal/Embedded - AC/DC						
Low to Mid Power (1W - 500W)						
High Power (500 - 24KW)						
Single Output						
Multi-Output (Dual, Triple, Quad)						
PCB Mount						
Open Frame						
U-Channel/Enclosed						
DIN Rail						
Modular/Configurable						
ATX						
Front End, Bulk Power						
Medical Rated						
Conduction Cooled						
Industrial Temperature						
Extended Temperature						
I ² C PMBus Control/Interface						
Power Over Ethernet (PoE)						
External- AC/DC						
Wall Mount Adapters						
Desktop						
Medical Rated						
High Power (1KW - 24KW)						
LED Drivers						
Power Over Ethernet (PoE)						
Specific Purpose						
UPS						
Battery Charging						
Inverter (DC/AC)						
DC/DC						
Isolated DC/DC Converters						
Fractional Brick						
Digital Control						
Industrial Pin-Out						
Intermediate Bus Converter						
Low Power Unregulated						
Wide Input Range 4:1						
Surface Mount						
EN50155 DC/DC						
300Vin Modules						
Non Isolated POL Converters						
Digital Control						
Through Hole						
Single In Line						
Surface Mount						
Ancillary Power Products						
ATCA PIM Modules						
RF/Power Amplifier						
PFC Modules						
Battery Charging						
Embedded DC/DC						
Open Frame/Enclosed						
Front End Bulk Power						



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