

# Product Index

## A

<b>Adapters</b>	
AC Adapters	1247, 2093, 2145, 2154, 2169-2183
Bluetooth	(See Bluetooth)
D-Sub	46, 1408, 1417
I/O	1339, 1367, 1369, 1374
GPIO to USB	2232
Modular	45-46, 1339, 1367, 1369
Phono (RCA)	1235, 1237
RF	13, 18, 250, 1237, 1287, 1293-1294, 1296-1298, 1303, 1305, 1307-1308, 1310, 1312-1313, 1321-1323, 1325
SMT	1323
Socket	29, 260, 1635-1636
XLR	1284
<b>Alarms</b>	348, 365, 668, 1220, 1949-1951, 2156
<b>Alligator Clips</b>	2226, 2236-2237, 2241
<b>Alternators</b>	(See Semiconductors)
<b>Amplifiers</b>	(See Semiconductors)
<b>Analog ICs</b>	(See Semiconductors)
<b>Analog Panel Meters</b>	2216
<b>Antennas</b>	5-8, 13, 16, 26, 29, 33, 47, 49, 250, 1164, 1166, 1350

<b>Arrays</b>	
Capacitor	689, 870, 878, 917, 922
LED	82, 104, 109, 133, 147
Resistor	680-690
<b>Attenuators</b>	419, 1318, 1325, 1833

<b>Audible Signal Devices</b>	
Alarms	1949-1951
Benders	1952
Buzzers	1943-1944, 1949-1951
Earphones	1945
Electret Condenser Microphone	1945, 1954
Elements	1945, 1952
Hardware	1950
Indicators	1951, 1953, 1956
Piezo	1950-1952, 1955
Ringers	1944, 1950
Sirens	1951, 1956
Sonalters	1949-1951
Speakers	399, 1941, 1946-1948, 1950, 1955-1956
Transducers	1941, 1946, 1950, 1952, 1956
<b>Automotive</b>	
12VDC Jacks and Plugs	1236
Capacitors	880, 901, 907-909, 933-937
Connectors	135, 1236, 1497-1500, 1551, 1626, 1641
LED	(See LED Indication)
Relays	1863-1867, 1923-1924

## B

<b>Basic Stamp</b>	52-53
<b>Batteries</b>	
1/2AA	2204
1/3AA	2196
2/3AA	2204
2/3AA	2204
4/5A	2196
AAAA	2195
A	365, 429-430, 2057, 2196, 2201, 2204
AA	2057, 2195-2196, 2200, 2203-2204
AAA	2057, 2195-2196, 2203
C	2190, 2195-2196, 2200-2201
D	2190, 2195-2196, 2200
F	2196
N	2195-2196
SC	2196
9V	2195-2196, 2199, 2204
Alkaline	2195, 2203
Battery Packs	2196, 2199-2200, 2204
Button Cell	2199, 2203
Calculator	2203
Camera	2203
Carbon Zinc	2195, 2203
<b>Chargers</b>	
Lead Acid	2197
Nickel-Metal Hydride	430, 2196
Coin Cell	2199, 2201-2203
Computer	2203
Electronic	37, 2203
Hearing Aid	2203
Lantern	2195
Lead Acid	2195, 2197-2198
Lithium	482, 2195, 2199-2204
Manganese Dioxide	2203
Memory Backup	2199-2200, 2204
Nickel-Cadmium	2195-2196
Nickel-Metal Hydride	2195-2196, 2199
Photo	2203
Pure Lead	2198
Rechargeable	2195-2199, 2201, 2204
Scotter	2195, 2197-2198
Silver-Oxide	2203
UPS	2150, 2159, 2190, 2195, 2197-2198
Watch	2203
Wheelchair	2195, 2197-2198
Zinc Chloride	2195

<b>Battery Accessories</b>	
Analyzer	2198
Chargers	430, 442, 465, 2150, 2196-2197, 2204
Clips	2044, 2210, 2212, 2236, 2241
Holders	2044, 2055, 2202, 2206-2212
Indicator Labels	2212
Modular Contacts	2205
Snaps	1655, 2044, 2210-2211
Spring Contacts	2205, 2210, 2212, 2235
<b>Binding Post</b>	1272-1273, 1279, 1656, 2238
<b>Blowers</b>	2023, 2069
<b>Bluetooth</b>	
Adapters	18, 29
Antennas	1166
Connectors	243, 1354
Crystals	1047
Data Transmission	18, 25, 29, 49, 53, 396
Evaluation Kit	22
ICs	36, 395-396
Interface	18, 25, 29, 36, 49, 243
Modules	9, 18-19, 21-22, 24, 29, 36, 49, 53, 243
SAW Filters	1049
<b>Boxes</b>	(See Enclosures)
<b>Braid</b>	2259, 2263, 2274
<b>Breadboards</b>	38, 241, 2274-2280
<b>Buzzers</b>	1943-1944, 1949-1951

## C

<b>Cabinets</b>	
Accessories	133, 2021-2026
Hardware	2022-2024
Portable	2026, 2028
Racks	2022, 2025
Utility	2026, 2028
<b>Cable</b>	(See Wire and Cable)
<b>Cable Assemblies</b>	(See Wire and Cable)
<b>Cable Ties</b>	1169-1172, 1174-1176, 1191, 1567
<b>Capacitors</b>	
Aluminum Electrolytic	
5mm	800, 847
7mm	852
Axial	853, 863, 865-866
BestCap™	836
Bi-Polar	807, 852
Computer Grade	835
Double Layer	836-837, 840-842
Flatpack	827
General Purpose 85°C	797-798, 807, 813, 823, 825, 827-829, 831-835, 843-844, 847-848, 852-853, 864-866
High Capacitance	813, 816-820, 825-828, 833-836, 841, 843-844, 852-857
High Frequency	833, 836
High Reliability	805, 850-851
High Ripple	805-806, 816-817, 819-820, 826-827, 831-833, 835, 846, 850
High Temperature	797, 799-806, 808-810, 812-814, 816-822, 824, 826, 829-830, 833-834, 836, 843, 845, 847, 849-851, 864-865
High Voltage	816, 825-830, 833-835, 843-845, 848-849, 853-857, 865-866
Kit	837, 839
Low ESR	797, 805, 808-810, 814, 816-820, 822, 827, 843, 846
Low Impedance	797, 799-800, 804, 806, 850-851
Low Leakage	835, 846, 865
Memory Backup	836, 841-843
Miniature	847, 852-853, 863-866
Mounting Hardware	828
Non-Polar	846-847
Organic	814, 817-820
Polymer	814-822
Radial	819-820, 822, 836, 840, 848-852, 854-862, 864
Screw Terminal	827-828, 832-833, 835, 837, 840
Snap Mount	823-826, 829-831, 833-834, 837, 840
Supercapacitors	836-843
Surface Mount	797-811, 813-814, 816-822, 836, 842
Ultracapacitors	837-839
<b>Ceramic</b>	
Arrays	870, 878, 917, 922
Automotive	880, 901, 907-909, 933-937
Axial	941-943
Broadband Blocks	891
Chip	867-873, 875-894, 896-908, 910-920, 924-937, 939
Conformal Coated	940-941, 943-946
Coupling	953
Disc	948, 953-954
EMI Suppression	878-879
Fail-Safe	870-871
Feedthru	878-879
Floating-Electrode	870-871
Flexible Termination	867-877
Flexicap	872-875

Flexterm	867-868, 871-873
General Purpose	896-904, 910-912, 924-931
Half-Turn	1019
High Capacitance	869, 875, 878-879, 882, 887, 893, 903-908, 910, 913, 924-926, 930-931, 933-937, 940, 942-949, 953-954
High Q	882, 891, 902-904, 921, 923
High Temperature	869, 875, 877, 879, 882-885, 887-890, 893-904, 910-915, 920, 940, 942-947, 949, 952-954
High Voltage	867-868, 875, 877, 883-886, 890, 894-895, 898, 913-914, 918-920, 939, 942-948, 953-954
Interdigitated	879
Kits	873, 887, 890-891, 893, 895
Low ESL / Low ESR	869, 879, 882, 885, 902-904, 916-917
Monolithic	879, 900, 924-931, 933-937
Open-Mode	880, 940, 942-943
Multilayer	867-872, 874-875, 878-890, 892-908, 910-915, 923-931, 938-942, 945-946, 949-952
Multi-Turn Trimmer	1017-1019
Open-Mode	871, 873, 875, 877, 932
Radial	940-954
RF Microwave	882-884, 891, 921
Surface Mount	867-939
Tin/Lead Termination	867-877, 886, 892, 909
Tip and Ring	881, 894, 913, 918
Trimmer	1017-1019
Ultra Stable	869
Feedthru (Arrays & Capacitors)	878-879, 1083-1085
<b>Film</b>	
Axial	958, 972-973
Chip	882, 968-969
DC Link	955, 962-963
Dipped	957
Film/Foil	976-978
Kits	966
Metallized	
Box	955, 965, 973, 978
Paper	966
Polyester	955-960, 965-967, 970-976
Polyphenylene	966
Polypropylene	956, 958-959, 965-966, 970, 972-978
Motor Run / Motor Start	961
Orange Drop	974
Polyester	955-960, 965-967, 970-976
Polypropylene	956, 958-959, 962-966, 970, 972-978
Radial	955-957, 959-960, 962, 965-967, 973-977
Snubbers	959-960, 964
Suppression	960, 965-966, 972
Surface Mount	882, 955, 962-963
Switching	805, 850-851, 933-937, 1366
High Reliability	805, 850-851, 933-937, 1366
Mica	979-981
Mounting Hardware	828
RC Networks	689
Supercapacitors	836-843
Surface Mount	797-814, 816-822, 836, 842, 867-939, 955, 979-980, 982-1008, 1015-1017, 1019, 1061, 1078, 1085, 1641, 1724, 1731, 1746
Tantalum	
Axial	1012, 1014-1016
Dipped	1009-1011, 1013
Fail-Safe Fused	1000, 1015
Hermetically Sealed	1012, 1014
High Temperature	985-986, 988-996
1000-1001, 1003, 1016	
Kits	993, 996, 999
Low ESR	984-986, 992-995, 998-1000, 1002-1008, 1012, 1015
Low Profile	990, 995, 1001-1002
Niobium Oxide	982-983
Polymer	988, 992-994
Radial	1009-1011, 1013
Surface Mount	982-1008, 1015-1016
Wet	1015-1016
Trimmer	1017-1019
<b>Card Readers</b>	361, 371, 1472, 1474, 1486
<b>Cases</b>	978, 1062, 1072, 2026, 2031-2033, 2039-2043, 2048, 2055, 2059, 2221, 2223-2224, 2226-2227, 2229
<b>CCFLs</b>	136
<b>Chassis</b>	2021, 2023, 2026, 2039, 2041
<b>Chemicals</b>	
Adhesives	2262
Anti-Static Coating	2051-2054, 2056, 2262
Bottles	2256, 2272
Circuit Board Repair Pens	2260, 2263
Cleaners	2259-2263, 2268-2269, 2271-2272
Conformal Coating	2262, 2272
Dispensers	2260, 2272
Dusting Gas	2260, 2271
Electroplating	2273
Epoxyes	2263, 2272
Flux	2256, 2258-2260, 2271
Freezers	2260, 2271

Heat Sink Compound	2075, 2080-2081, 2262, 2272
Lubricant	2254, 2260, 2263, 2272, 2274
Pumps	2272
Silicones	2271-2272
Threadlocker	2274
Transistor Grease	2262
Wipes	2256, 2260-2263, 2271-2272
<b>Chokes/Coils</b>	(See Inductors)
<b>Circuit Board Indicators</b>	(See LED Indication)
<b>Circuit Breakers</b>	
Hydraulic/Magnetic	1935-1936, 1938
Push-to-Reset	1937-1938
Seals	1829
Thermal	1260, 1936-1940
Thermo Magnetic	1933, 1936, 1938-1939
<b>Circuit Protection</b>	
Circuit Breakers	1934-1940
DIN Rail	1701, 1934-1935, 1939, 2160, 2191
Filters	509, 602, 611-612, 615, 619, 622, 624-625, 631, 658, 1079, 2160
Fuse Blocks	665, 667, 676-677, 1701
Fuse Clips	665-667, 670, 677, 679
Fuse Holders	665-667, 676-677, 679, 1701
Fuses	643, 646, 651-664, 668-675, 678, 1701, 1937
Gas Discharge Tubes	635, 641-642
Metal Oxide Varistors	637-640
ESD Devices	509, 602, 611-613, 615, 619, 621-626, 631, 633-634, 657-658
Resettable Fuses	646, 651-657
Surface Mount	492, 499, 509, 511, 520, 606, 615, 617, 620-623, 627-628, 633, 636, 642-643, 646, 648-649, 651, 656-661, 668, 670, 675, 678, 2133
Surge Protectors	492, 499, 509, 511, 520, 605-617, 619-624, 627-628, 631-633, 637, 641-642, 658, 2191
Thermistors	637, 641-642, 2160, 2190-2194
Thyristors	643-650
Varistors	631-640, 658
Voltage Suppressors	492, 509, 520, 605-610, 613-618, 620, 622-624, 627-628, 631-633, 637, 641-642, 658, 2191
<b>Cleaners</b>	372, 2259-2263, 2268-2272
<b>Clips</b>	
Alligator	1231, 2226, 2236-2237, 2241
Battery	2210, 2212, 2236, 2241
Fahnestock	1657
Fuse	665-667, 669-670, 677, 679, 1246
Heat Sink	2075
Test	2226, 2233, 2236-2241
<b>Coils</b>	(See Inductors)
<b>Compiler Software</b>	45, 222-223, 242
<b>Computers, Single Board</b>	58-62

# Product Index

4.00mm / .157"	1263, 1345, 1571-1572, 1584, 1601, 1677, 1683, 2101	Datamate	1564-1567	2.36mm / .093"	1591	Modular	1326-1327, 1329-1334, 1339, 1349, 1362-1365, 1369, 1373
4.14mm / .163"	1541-1542	Devicenet™	1370	2.50mm / .098"	1574, 1607, 1618, 1683-1684	Phone	1275-1276, 1280-1283, 1288-1289, 1329, 1334
4.20mm / .165"	1548, 1622-1623, 2101	DF3	1579-1580	2.54mm / .100"	1467, 1477, 1500, 1513-1516, 1525-1527, 1529-1537, 1553-1555, 1558-1561, 1568, 1574, 1593-1596, 1598, 1618, 1636, 1644-1645, 1647, 1655	Phono (RCA)	1214, 1269, 1271, 1278, 1283, 1290
5.00mm / .197"	168, 1263, 1265-1266, 1275, 1277, 1280-1282, 1289, 1498-1499, 1547, 1571-1575, 1607, 1628, 1647, 1669-1670, 1672-1673, 1675-1676, 1678-1686, 1688, 1691, 2171	DF11	1256, 1581-1582	3.00mm / .118"	1520, 1571, 1619-1621, 1670	Telephone	1329, 1334
5.08mm / .200"	1492, 1543-1544, 1625	DF12	1256, 1573	3.96mm / .156"	1540, 1599	Test	1274, 1654, 2238
5.84mm / .230"	1626	DF13	1577-1578	4.14mm / .163"	1542	Tip	1274
6.35mm / .250"	1249-1250, 1545, 1584-1585, 1668, 1679, 2185-2186	D-Subminiature		4.20mm / .165"	1548, 1623	XL.R.	1269, 1283-1285, 1290-1291
7.50mm / .295"	1511, 1625, 1669, 1679, 1691, 2171	Adapters	46, 1408, 1417	5.00mm / .197"	1547, 1647, 1670	Jumpers	
7.62mm / .300"	1669, 1679, 1690-1691	Backshells/Hoods/Housings		5.08mm / .200"	1544, 1625	Cable	1587, 1629
10.00mm / .393"	1603, 1624, 1627, 1669, 1679-1680, 1690-1691	Metal	1379-1382, 1389, 1392, 1397, 1399, 1401, 1404, 1414-1415	6.35mm / .250"	1545	Shunts	1512, 1553, 1561, 1587, 1594, 1635
10.16mm / .400"	1417, 1444, 1669, 1679, 1691, 1861	Plastic	1379-1380, 1382, 1389, 1392, 1399, 1404, 1407-1408, 1414-1415	7.50mm / .295"	1511, 1625, 1691	Shorting	1587
AC	1241, 1244-1262	Cable Assemblies	1345-1346	10.00mm / .393"	1624, 1690-1691	Terminal	1671, 1674
Adapters		Combination	46, 1397, 1400-1402	Box	1515	Test Leads	2226, 2236, 2240
AC	1247, 2171, 2179, 2231	Contacts	1382, 1386-1388, 1393, 1395-1397, 1399-1403, 1405, 1407-1409, 1411, 1508	Breakaway	1513, 1525, 1559, 1594, 1598, 1600	Keying Plugs	1421, 1523, 1534, 1538, 1541, 1548
D-Sub	46, 1408, 1417	D Ribbon	1379-1380	Cardbus	1486	Kits	
I/O	1339, 1367, 1369, 1374	Dust Caps/Covers	1392, 1394, 1398, 1404, 1408, 1416	DIN 41612	1479, 1488	Designer/Service	1589
Modular	45-46, 1339, 1367	Filtered	1397, 1406-1407, 1409, 1416-1417	DIP	1587, 1636	D-Sub	46, 1380, 1382, 1386-1389, 1408, 1416
Phono (RCA)	1235, 1237	Hardware	1388, 1390, 1392, 1404, 1410, 1415, 1417	Hard Metric	1477, 1482, 1496	Modular	45-46, 1328, 1369, 2242
RF	(See Connector/RF)	High Density	1387, 1392, 1397, 1403, 1405, 1407, 1409-1412, 1693	High-Temp.	1683	Pin and Socket	1376, 1589, 1591
XL.R.	1284	IDC	1380, 1385, 1390, 1407-1408	IDC	1467, 1516, 1527, 1529, 1536-1537, 1540, 1554-1555, 1587	RF Adapters	13, 1294, 1310, 1322, 1325
AdvancedMC™	1361, 1495	Kit	46, 1380, 1382, 1388-1389, 1408, 1416	Latch/Ejector	1514, 1530, 1554-1555, 1560	Terminal	1648, 1665-1666
AdvancedTCA® (ATCA®)	1360-1361, 1495	Machined Contact	1391, 1393, 1395, 1401, 1403, 1407-1409, 1413, 1417	Low Profile	1515, 1529, 1534, 1554, 1558, 1593, 1604, 1683, 1685	KK® Series	1597-1600
AHD Series	1247	Metal	1362, 1379, 1381-1389, 1391-1393, 1395-1397, 1399-1406, 1409, 1411-1415, 1417	Pin Strip	1513, 1518, 1525, 1559, 1594-1595, 1598, 1600, 1681-1682	Labels	1378
Alligator Clips	1231, 2226, 2236-2237, 2241	Micro-D	1408	Shrouded	1516, 1531, 1533, 1537, 1554, 1558, 1560-1561, 1593, 1617-1618	LFH™	1610
Amphe-Power®	1501	Micro-TCA	1232, 1399	Terminal Block	1670, 1673, 1681-1685, 1687-1692	Lighting Connectors	98, 1440, 1467-1471
AMP-Latch	1527	Mini-D	1379-1380	Unshrouded	1527, 1559-1561	M8	1457, 1459
AT Series	1323, 1425-1428, 1497, 1572	Mixed Contact	1382, 1386, 1397, 1400-1402, 1407	Wire to Board	1468, 1511, 1521, 1577-1578, 1606, 1611, 1613-1614	M12	1370, 1373, 1457-1459, 1998
Audio	45, 228, 1214, 1229, 1235, 1269-1291, 1325, 1346	Plastic	1414	Hot Shoe	1568	M23	1460
Automotive	135, 655, 1497-1500, 1551, 1626	Stacked	1387, 1399-1400, 1411	HPI	1521	Mate-N-Lok	
Backplane / Card Edge		Water Resistant / Waterproof	1362, 1395, 1397-1398, 1403, 1410	Memory		Commercial	1543-1544
AMC	1360, 1495	DC Power	231, 1236, 1255, 1623-1268, 1376-1377, 2171	Compactflash®	261, 1473-1477	Micro	1546
Card Edge	1360, 1477-1481, 1483-1484, 1487-1488, 1494-1495	DIN		DDR	1494	Mini	1541-1542
Compact PCI	1483, 1493	41612	1473, 1479, 1488, 1490-1492	DDR2	1486, 1494	Universal	1544-1546
DIN 41612	1473, 1479, 1488, 1490-1492	Accessories	1801, 1492, 1916	DDR3	1474, 1486, 1494	MEG-Array®	1556
Hard Metric	1360, 1477, 1483, 1493, 1496	Circular	1271, 1283, 1290, 1442-1443, 1455-1456	DIMM	1474, 1494	Compactflash®	261, 1473-1477
High Speed	1360, 1489, 1496	Mini-DIN	1423, 1455-1456	Keys	1366	DDR	1494
Memory	(See Connector/Memory)	DIN Rail	1695-1704, 1903, 1915-1916	microDIMM	1476	DDR2	1486, 1494
MicroTCA	1360, 1487, 1495	Disk Drive	261, 1625	microSD™	1472-1477	DDR3	1474, 1486, 1494
PC/I04 and PC/I04-Plus	1480, 1569	Displayport™	1335, 1344, 1346, 1348, 1352	miniDIMM	1476	DIMM	1474, 1494
PCI-Express	1478, 1488, 1495	Dubox™	1558	microSD™	1472-1477	Keys	1366
Power	1360, 1483, 1487, 1489, 1491-1492	DuraClik™	1588	miniSD™	1476	microDIMM	1476
Banana Plugs and Jacks	1214, 1272-1274, 1279, 2238	DVI	1228, 1238, 1346	MMC	1472, 1474-1475	microSD™	1472-1477
Barrier Blocks	1668, 1671-1672, 1674, 1677	EBBI™	1610	PC Card	1486	miniSD™	1472, 1474-1475
BergStik™	1559	ECOIMATE	1441	PIMC	1472	MMC	1472
Binding Posts	1272-1273, 1279, 1656, 2328	Ethercon®	1339	PM Card	1486	SD™	223, 261, 1472-1473, 1475-1477
Bluetooth	(See Bluetooth)	Ethernet	42, 223, 228, 1229, 1339, 1346, 1358, 1362-1373, 1375, 1683, 2171	Smart Card	1472, 1475, 1486	Smart Card	1472, 1474
Broadcast	1270, 1287	Factory Automation	1497	Metrimate	1547	Metral	1489
C-Grid®	1594	Faston	1650-1651	Mezzanine	1353, 1511, 1550, 1556-1557, 1576	Mi II	1613
C-Grid® III	1595-1596	Ferrules	1665-1666	MicroBlade™	1611	Mi II	1613
Camera Link™	1341	FFC/FPC (Flexible Printed Circuit)	1467, 1563, 1571, 1575, 1583, 1627-1628, 1630	MicroClasp™	1614	MicroBlade™	1611
Card Edge	(See Backplane/Card Edge)	Fiber Optic	173, 1339, 1344, 1368	MicroClasp™	1614	Micro-fit 3.0™	1619-1621
Cat 3	1326-1327, 1331, 1335, 1371	Filtered		Micro-fit 3.0™	1528	Micro-MaTch	1528
Cat 5	1229, 1326-1329, 1331-1335, 1363-1367, 1369-1370, 1372-1375	Circular	1456	MicroTCA™ (µTCA™)		MicroTCA™ (µTCA™)	
Cat 5e	1229, 1326-1329, 1331-1335, 1363-1367, 1369-1370, 1372-1375	D-Subs	1397, 1406-1407, 1409, 1416-1417	Card Edge	1360, 1487, 1495	Card Edge	1360, 1487, 1495
Cat 6	1229, 1331, 1339, 1363, 1371	Inlets	1251-1252, 1254-1257, 1259-1261	D-Sub Power	1232, 1399	D-Sub Power	1232, 1399
CHAMP®	1390	Modular	1330	Micro-USB	1336, 1340, 1342, 1348, 2179	Micro-USB	1336, 1340, 1342, 1348, 2179
Circular		Modules	1251-1252, 1254-1257, 1259-1260, 1262	Milli-Grid	1616-1617	Milli-Grid	1616-1617
97 Series	1429-1433	USB	1350	Mini-Clamp	1519-1520	Mini-Clamp	1519-1520
Accessories	1421-1423, 1432-1433, 1440-1441, 1443-1448, 1451, 1453-1454, 1460, 1462, 1464-1466	FireWire (IEEE 1394)	1238, 1336, 1338-1339, 1341, 1360, 1365, 1373	Mini-D Ribbon	1352, 1379-1380	Mini-D Ribbon	1352, 1379-1380
DIN	1271, 1283, 1290, 1442-1443, 1455-1456	Flat Flex Cable	1198, 1628-1629, 1631-1632	Mini-DIN	1423, 1455-1456	Mini-DIN	1423, 1455-1456
Field Installable	1449-1450	Flat Ribbon Cable	1197, 1514-1516, 1519-1520, 1554-1555, 1562, 1587, 1693	Mini-Fit		Mini-Fit	
JBX	1465	Futurebus	1482, 1493	BMI™	1624	BMI™	1624
M8	1457, 1459	Gender Changers	1408	H2O™	1622	H2O™	1622
M12	1370, 1457-1459	GIG-Array	1556	Jr.™	1622-1623	Jr.™	1622-1623
M23	1460	Han®	1371, 1506-1510	RTC™	1623	RTC™	1623
Metal Shell	1368, 1423, 1429-1439, 1442, 1448, 1451-1453, 1460, 1465	Han® Max/Industrial Ethernet	1339, 1362-1373, 2171	Sr.™	1624	Sr.™	1624
Micro and Mini	1290, 1368, 1422-1423, 1425-1426, 1436-1440, 1447, 1449-1451, 1454-1456, 1461, 1465	HandyLink™	1345	Mini SAS	1341, 1352, 1355, 1358	Mini SAS	1341, 1352, 1355, 1358
Mini-DIN	1423, 1455-1456	Hard Metric	1360, 1477, 1482-1483, 1493, 1496	Minitek™	1560-1561	Minitek™	1560-1561
MIL-DTL-5015 Style	1424, 1428-1435, 1448	HDMI		Mini-USB	46, 1336, 1338, 1340, 1342, 1348-1349, 1372	Mini-USB	46, 1336, 1338, 1340, 1342, 1348-1349, 1372
MIL-DTL-26482 Style	1424, 1427-1428, 1436-1439	Cable Assemblies	1228, 1238, 1339, 1346, 1349	Modular		Modular	
MIL-DTL-38999 Style	1424-1427	Connectors	1238, 1336, 1338-1339, 1346-1347, 1349	Cable Assemblies	45-46, 1327, 1339, 1349, 1367, 1369, 1372-1373	Cable Assemblies	45-46, 1327, 1339, 1349, 1367, 1369, 1372-1373
Plastic	1367-1369, 1418-1420, 1422-1423, 1440-1441, 1443-1447, 1449-1450, 1454, 1458, 1462-1463, 1466	Headers		Couplers	1328	Couplers	1328
Push/Pull	1440, 1452-1454, 1465	0.50mm	1571-1574, 1683	Jacks	1326-1327, 1329-1334, 1339, 1349, 1362-1365, 1369, 1373	Jacks	1326-1327, 1329-1334, 1339, 1349, 1362-1365, 1369, 1373
Weathertight	1367, 1420, 1422-1423, 1434-1435, 1438-1447, 1451, 1454, 1461-1463, 1466	1.00mm / .039"	1488, 1605, 1647	Plugs	1328, 1331-1332, 1363-1365, 1367, 1369, 1373, 2242	Plugs	1328, 1331-1332, 1363-1365, 1367, 1369, 1373, 2242
Clik-Mate™	1607	1.25mm / .049"	1521, 1606-1607, 1643	Power Over Ethernet (POE)	1333	Power Over Ethernet (POE)	1333
Clincher™	1562	1.27mm / .050"	1382, 1516, 1527, 1529, 1535, 1560, 1568, 1604, 1609	RJ11	1329, 1363	RJ11	1329, 1363
Coaxial	(See RF)	1.50mm / .059"	1521, 1608, 1618	RJ45	1327, 1329, 1331, 1334, 1339, 1363, 1367, 1369, 1373, 1581-1583	RJ45	1327, 1329, 1331, 1334, 1339, 1363, 1367, 1369, 1373, 1581-1583
Compact PCI	1482-1483, 1493, 1506	2.00mm / .079"	1477, 1482, 1518, 1520, 1522, 1529, 1560-1561, 1569, 1579-1581, 1607, 1611-1617, 1683	Stacked	1327	Stacked	1327
Compression	1214, 1270, 1657, 1664	2.13mm / .084"	1590	MT Series	1534, 1914	MT Series	1534, 1914
Conan™	1557			MTA Series	1536-1540, 1774, 2242	MTA Series	1536-1540, 1774, 2242
CT / Mini CT	1470, 1521-1522			MTE Series	1531-1533	MTE Series	1531-1533
				MX150L™	1626	MX150L™	1626
				NEMA Terminal Blocks	1667	NEMA Terminal Blocks	1667
				OpticalCon®	1339	OpticalCon®	1339
				Outlets	1244-1248, 1252-1255, 1257-1261, 1404	Outlets	1244-1248, 1252-1255, 1257-1261, 1404
				Patch Cord Assemblies	(See Wire and Cable)	Patch Cord Assemblies	(See Wire and Cable)
				PCI-Express	1358, 1474, 1478, 1488, 1495	PCI-Express	1358, 1474, 1478, 1488, 1495

# Product Index

PC Pins / Receptacles	1291, 1383-1384, 1387, 1523, 1533, 1536, 1539, 1558, 1597, 1599, 1639, 1642, 1903, 2235, 2281	Searay	1609	Fork	1649, 1658, 1663-1664	2 Digit	73, 81-83
PE Series	1860	Serial ATA (SATA)	261, 1347, 1352, 1358-1359	Heat Shrink	1649, 1660	3 Digit	72, 82
PicoBlade™	1606	Serial Attached SCSI (SAS)	1341, 1352, 1355, 1358	PCB	1407, 1588, 1597, 1599, 1606, 1624, 1639, 1672-1675, 1682, 1685-1691, 1852	4 Digit	72, 81
Pico-Clasp™	1605	SFP / SFP+	1335, 1351, 1354, 1356-1357	PTFE	1653-1654	5 Digit	72
Pico-EZmate™	1588	Sherlock™	1615	Ring	1649-1652, 1658-1661, 1663	6 Digit	72
PicoFlex®	1604	Shrunk D Ribbon (SDR)	1341	Snap Plugs	1659, 1661	8 Digit	72, 81
Pico-Spox™	1608	Shunts	(See Connectors/Jumpers)	Solder Lugs	1273, 1655-1656	16 Digit	81
Pin and Socket		SL™	1337, 1592-1593, 1799, 2171	Spade	1649-1652, 1658-1660		
1.00mm / .039"	1605	SlimStack™	1601-1603	Test Points	1656-1657		
1.57mm / .062"	1549, 1589	Smart Card	1472, 1474	Wire Connectors	1426, 1500, 1592, 1648-1649, 1652, 1658, 1661, 1664-1665, 1670, 1681, 1684, 1687-1692, 2281		
2.00mm / .079"	1474, 1569, 1622-1623	Sockets					
2.13mm / .084"	1590	AC	1245	Test Points	1654, 1656-1657, 2240		
2.36mm / .093"	1549, 1591	Ball Grid Array (BGA)	1556	Tools	(See "T" Section)		
2.54mm / .100"	1426-1427, 1538	Boardmount	1245, 1379-1380, 1474, 1512, 1515, 1517-1518, 1520, 1544, 1546	Triad™	1357		
3.00mm / .118"	1546, 1619-1621	Burn-In	1634	Trim Trio™	1462-1464		
3.96mm / .156"	1538-1540	Compact PCI	1482-1483, 1506	Trio Tek	1564		
4.14mm / .163"	1541-1542	DDR2	1494	USB			
4.20mm / .165"	1548, 1622-1623	DIMM	1474, 1494	Cable Assemblies	45-46, 1228-1229, 1232, 1238, 1327, 1335, 1338-1340, 1342, 1348-1349, 1366, 1369, 1372-1374, 2179		
5.00mm / .197"	1547	DIP	1587, 1633-1637, 1640-1641	Connectors	45-46, 243, 1229, 1232, 1238, 1327, 1335-1340, 1342, 1344, 1347-1351, 1362, 1365-1366, 1369, 1372-1374, 1475, 2179		
5.08mm / .200"	1543-1544	Display	1635, 1641	UHM	1477		
6.35mm / .250"	1545	Fine Pitch	1569-1570	Vesa	1409		
PC 104 and PC 104-Plus	1480, 1569	IC	1635-1637, 1640-1641, 1643-1645	VHDCI	1345, 1352		
Plugs		IDC	1539-1540, 1587	Video RCA Broadcast	1270		
AC	1244-1245, 1248, 1269, 2179	In-line	1547, 1634, 1641, 1643-1645	Wire Nuts	1428, 1649, 1658, 1661		
Banana	1272-1274, 1279, 2238	PCB	1272, 1423, 1512, 1541-1543, 1545, 1556, 1623-1624, 1632-1633, 1639, 1642, 1673, 2242-2243	X2	1355, 2239		
DC Power	1236, 1263, 1266-1267	Oscillator	1636	Xenpak	1355		
DIN	1271, 1283, 1290-1291, 1301, 1455-1456, 1697, 1700	PLCC	1633, 1636-1638	XFP	1355-1357		
Iris	1276	SIMM	1637	XLR	1269, 1283-1285, 1290-1291		
Modular	1328, 1331-1332, 1363-1365, 1367, 1369, 1373	SIP	1637, 1643-1645	XPack	1355		
Phone	1277, 1282-1283, 1289	SOIC	1634-1635	Z-Pack	1482-1483		
Phono (RCA)	1269, 1271, 1278, 1283, 1290	SOJ	1635	Contactor	1885, 1912, 1917-1918, 1928, 2094		
Tip	1274, 2236	Spring Loaded	1647	Controllers			
Water Resistant / Waterproof	1367, 1423, 1434-1435, 1438-1439, 1451, 1454, 1462-1463, 1626	SSOP	1635	LCD	63-64, 66-67, 206, 211, 240, 312, 345		
XLR	1269, 1283-1285, 1290-1291	Surface Mount	1336-1337, 1380, 1474, 1477, 1605, 1633, 1638, 1641-1642, 1647	Programmable	45-46, 204, 267, 310, 356, 421, 1925		
Pneumatic Modules	1508	Test	1634, 1636	Temperature	345-346, 361, 363, 426, 1925-1926		
Power		Transistor	1637, 1641	Converters	(See Semiconductors)		
AC	1244-1246, 1248-1262, 1269, 2171, 2179, 2185	Wiremount	1516-1519	Core Modules	(See Semiconductors)		
Circular	1370, 1377, 1419-1420, 1460	ZIF	1636	Counters	290-294, 1927, 2222-2223		
DC Power	231, 1236, 1255, 1263-1268, 1376-1377, 2171	Solar	231, 1376-1377	Crystals			
Disk Drive	1625	Solar Labels	1378	Cylinder Type	1043, 1050		
Entry Modules	1249-1260	Solderless	1273-1274, 1648-1652, 1658-1661, 1663-1664	Loaded	1024, 1026, 1034, 1040, 1043-1044, 1046, 1050-1052, 1055		
Heavy Duty	1505-1510, 1917	Speakon®	1286	Microprocessor	1023-1024, 1026, 1046-1047, 1055		
IEC	1244-1246, 1248, 1250-1261	SPEEDCON	1373, 1457	Saw Filters	1025, 1036, 1048-1049, 1059		
Rectangular	1502-1504, 1511, 1520, 1567, 1622-1625	SPOX™	1618	Surface Mount	1020, 1023-1026, 1031, 1033-1034, 1038-1041, 1043-1044, 1047, 1050-1051, 1055, 1060		
Power Clamp	1520, 1690	Terminal Blocks		Tuning Fork Watch	1026, 1034, 1044		
Powercon®	1286	2.50mm / .098"	1683-1684				
Quickie™	1554-1555	2.54mm / .100"	1667, 1674, 1678, 1680				
Radsok®	1501	2.54mm / .100"	1667, 1674, 1678, 1680				
Rack and Panel	1485	3.5mm / .137"	1669-1670, 1675, 1678, 1682-1686				
RF		3.81mm / .150"	1669-1670, 1672-1673, 1678, 1680, 1683, 1687, 1692, 1694				
1.0/2.3	1301	4.00mm / .157"	1677, 1683				
2.4mm	1323	5.00mm / .197"	1669-1670, 1672-1673, 1675-1676, 1678-1686, 1688, 1691				
2.92mm	1323	5.08mm / .200"	1669-1670, 1672-1673, 1675-1676, 1679-1680, 1683, 1685, 1689, 1692, 1694				
Adapters	13, 1287, 1293-1294, 1296-1298, 1303, 1305, 1307-1310, 1312-1313, 1321-1323, 1325	5.08mm / .200"	1669-1670, 1672-1673, 1675-1676, 1679-1680, 1683, 1685, 1689, 1692, 1694				
AMC	1308	6.35mm / .250"	1668, 1679				
BNC	1214, 1230-1231, 1237, 1270, 1287, 1292-1293, 1297, 1299-1301, 1310-1312, 1323-1325, 2237	7.50mm / .295"	1669, 1679, 1691				
Compression	1214, 1270	7.62mm / .300"	1669, 1679, 1690-1691				
F Series	1270, 1287, 1311, 1313, 1323	8.25mm / .325"	1672				
H.F.L.	1317	9.52mm / .375"	1667-1668, 1671-1672, 1679				
High Frequency Edge Mount	1319	10.00mm / .393"	1669, 1679-1680, 1690-1691				
MATV/CATV	1310, 1313, 1323	10.16mm / .400"	1669, 1679, 1691				
MCX/MMCX	13, 1230, 1233-1234, 1297, 1305, 1310, 1315, 1322, 1324	12.00mm / .500"	1677				
MHV	1305	15.00mm / .590"	1679, 1690-1691				
Mini BNC	1234, 1296, 1299, 1306, 1312, 1315, 1321, 1323	Accessories	1667, 1670-1671, 1674, 1680, 1692, 1694-1697, 1700-1704				
QMA	1308	Barrier	1668, 1671-1672, 1674, 1677				
RCA	1214, 1270	CLIPLINE	1696-1700				
Reverse Polarity	1299, 1307, 1314-1315	Compression	1657				
SHV	1295	DIN Rail	1695-1704				
SMA	1230-1231, 1233-1234, 1294, 1296-1297, 1299, 1302-1303, 1311, 1314, 1318-1320, 1323-1325, 2237	Eurostyle	1669, 1672-1673, 1675-1692, 1694, 1696-1704				
SMB	1230, 1234, 1294, 1297, 1301, 1304, 1321, 1324, 1447	Ferrules	1665				
SMP	1320	Fixed	1675, 1677, 1682-1683, 1686				
SMP	1308, 1318	Fuse Blocks	1699, 1701, 1704				
Stainless Steel	1231, 1303, 1319, 1567	Interface Modules	1670, 1693, 1695				
Terminators	1293, 1325	Panel Mount	1678, 1692, 1694-1695				
TNC	1295, 1299, 1306-1307, 1312, 1323	Pluggable	1669-1670, 1673, 1676-1679, 1681-1689, 1691-1692, 1694, 1697				
Twin-Axial	1304	Terminal Strips	1588, 1656-1657, 1668, 1671, 1677, 1681-1682, 1704, 2281				
UHF	1304, 1307, 1313	Terminals and Splices					
U.F.L.	1316	Butt Splices	1649-1651, 1659-1660, 1663-1664				
W.F.L.	1317	Closed End Splices	1648, 1652, 1659				
Rib-Cage™	1557	Compression	1657, 1664				
Sabre	1625	Couplers	1658, 1660				
Scotchlok	1648	Crimp	1407, 1588, 1592, 1595, 1597, 1599, 1606, 1608, 1611, 1616, 1618, 1625, 1648-1649, 1651, 1658, 1664-1665				
SCSI	1341, 1358, 1361	Disconnects	1648-1649, 1658, 1660, 1663-1664				
		Faston	1650-1651				
		Ferrules	1665-1666				

# Product Index

Transmitters/Receivers	173-174
Wipes	2263, 2272
<b>Filters</b>	
Band Pass	321, 1164-1165
EMC / EMI / RFI	509, 611-613, 615, 619, 622, 624-625, 953, 1061-1065, 1071-1086, 1150, 1251-1252, 1254-1257, 1259-1262, 1417, 2160, 2184-2189
Fan	2071
Line	612, 953, 1061, 1254, 1256-1257, 1259-1262, 2184-2189
Medical	1252, 1256-1257, 2184-2185
Modules	386, 1251-1252, 1254-1257, 2184-2189
SAW	1025, 1036, 1048-1049, 1058-1059
<b>Flash Memory</b>	(See Semiconductors)
<b>Flat Flex Cable Assemblies</b>	1195, 1198, 1628-1629, 1631-1632
<b>FPC Connectors</b>	1571, 1575, 1583, 1627-1628, 1630
<b>FPGAs</b>	(See Semiconductors)
<b>Fuses</b>	
Alarm	668
Automotive	646, 651, 655, 675
Blocks	665, 667, 676-677, 1699, 1701, 1704
Ceramic	646, 658, 662, 673-674
Fast-Acting	657-664, 668-669, 671-675
Fuse Clips	665-667, 669-670, 677, 679, 1246, 1699
Holders	665-667, 669-670, 676-677, 679, 1244-1246, 1699, 1701, 1704
Polymer ESD Devices	657
Resettable	646, 651-657
Slo-Blo®	658-659, 668-669, 672-675, 678
Subminiature	663, 671, 675
Surface Mount	643, 646, 651-652, 655-662, 668-670, 675, 678-679
Time Delay	660, 662-664, 668, 670-671, 674, 678

## G

<b>Gas Discharge Tubes</b>	635, 641-642
<b>Gender Changers</b>	1398, 1408
<b>Generators</b>	(See Test Equipment)
<b>GPS (Global Positioning System)</b>	7-8, 19, 36, 1048-1049
<b>Grommets</b>	170, 1389, 1427-1428, 1548, 1963, 1974

## H

<b>Handles</b>	165, 1273-1274, 1790, 1976, 1985, 2021, 2270
<b>Hardware</b>	
Boot Seals	1741, 1774-1775, 1777, 1787, 1829
Brackets	745, 751, 1976
Bumpers	1963
Bushings	1192, 1973
Cable Mounting	167, 1171-1173, 1177, 1179
Clips	164, 169, 1171, 1173, 1177, 1567, 1696-1697, 1903, 1970, 2051, 2075
Cordgrips	1964-1965, 1971
Eyeteles	1978, 2281
Fasteners	1967
Ferrules	1665, 1976
Grommets	170, 1179, 1963, 1974
Handles	165, 1976, 1985, 2021
Hole Plugs	1973, 1979
Insulators	165, 1966-1967, 2075
Jack Screws	1978, 1986
Kits	8, 222-223, 250, 1172, 1388, 1470-1471, 1665, 1978, 2075
Knobs	1818-1819, 1957-1962
LED	113, 135, 164-170, 173, 250, 1470-1471, 1967
Metric	1820, 1965, 1969-1970, 1983, 1987-1989
Nuts	1965, 1971, 1986, 1989
Nylon PCB	165, 1967-1968, 1978
PCB Card Guide	165
PCB Supports	1967-1968, 1978
Resistor Mounting	113, 167, 745
Screws	828, 1171-1172, 1404, 1975, 1978, 1980, 1986-1987, 2024
Spacers	165-166, 168-169, 1966-1967, 1970, 1978, 1981, 1985, 1988-1989
Splices	1191-1192, 1648, 1651
Staking Tool	1978-1979
Standoffs	164, 166, 170, 1967-1969, 1977, 1979, 1982-1985, 1988
Strain Relief	1191, 1390, 1964-1965, 1972-1973
Terminal Post	1979, 2280-2281
Test Points	1975
Washers	1290, 1950, 1966, 1978, 1986, 2075
<b>Headers</b>	(See Connectors)
<b>Heat Guns</b>	1185
<b>Heat Shrink</b>	
Butane Torches	1185
Heat Guns	1185
Tubing	1181, 1184-1191, 1193
Shrink Tubing Kits	1185, 1188-1190, 1193

Solder Splices / Sleeves	1192
Woven Fabric	1181
<b>Heat Sink Compound</b>	2075, 2080, 2262, 2272
<b>Heat Sinks</b>	100, 106, 1876, 2072-2081, 2083-2084, 2262, 2272
<b>Hook and Loop Fasteners</b>	1169, 1176, 1967
<b>Humidity Indicator Cards</b>	2266

## I

<b>Identification Indicators</b>	1169, 1171-1172, 1178, 1378
Circuit Board	113-114, 123-126, 131, 144, 149, 152
Incandescent LED	110, 113-114, 118, 120-126, 131, 144, 149-152, 162, 1693, 1848, 1902
Neon	114, 118
Non-Relampable	114, 120, 150
Panel Mount	110, 113-114, 118, 120-122, 150-151, 762, 1903, 1951, 1956, 2217
Surface Mount	110, 120, 123-124, 149
Tapelite®	162
Xpandolite®	162
<b>Inductors</b>	
Air Core	1120-1123
Axial	1073, 1078, 1087, 1125, 1131-1138, 1154
Beads	1063, 1069-1070, 1073-1077, 1087-1088, 1100-1101, 1117, 1147, 1154
Bobbin	1101, 1126-1128
Chip	1069-1070, 1073-1076, 1078, 1081, 1088, 1093, 1098-1101, 1103, 1116, 1119-1124, 1131, 1141-1145, 1147-1149, 1151, 1153
Chokes / Coils	1073, 1079, 1101, 1104-1112, 1114, 1117, 1120-1135, 1159, 1163
EMI Suppression	1062-1064, 1069-1083, 1085-1088, 1101, 1124-1125, 1127-1128, 1150, 1154
Ferrite	1062-1064, 1069-1078, 1082, 1086-1088, 1101, 1118, 1121, 1147-1148, 1154, 1159
Fixed	1131-1140
High Current	1070, 1073-1074, 1076, 1080, 1102-1103, 1109-1110, 1117-1118, 1125, 1127-1128, 1141, 1151-1152, 1158-1159
High Frequency	1063-1064, 1070-1071, 1109-1110, 1118, 1120-1123, 1139-1140, 1153, 1166
High Q	1098, 1119-1123, 1141, 1153
Kits	1098, 1100, 1150, 1156, 1159, 1163
Molded	1153
Multilayer	1098, 1120-1121, 1154
Non-Shielded	1093, 1099, 1101
Power	1089-1097, 1099, 1101, 1104-1111, 1113-1114, 1118, 1125-1130, 1136-1137, 1141-1146, 1154-1157, 1161-1162
Radial	1073, 1125-1127
RFI Suppression Coils	1101
Shielded	1090-1092, 1094-1097, 1101, 1106-1110, 1118, 1121, 1127-1128, 1141, 1148, 1150-1151, 1154, 1161-1162
Surface Mount	1069-1070, 1073-1076, 1078, 1081, 1085, 1087-1088, 1090-1096, 1098-1099, 1101, 1103, 1105-1115, 1117-1124, 1126-1135, 1141-1151, 1153-1163
Toroidal	1087, 1102-1103, 1126-1128, 1142, 1150
Wirewound	1098, 1101, 1116, 1123-1125, 1127-1128, 1142, 1153, 1159-1160
<b>Infrared Thermometers</b>	(See Test Equipment)
<b>Insulation Testers</b>	2227
<b>Insulators</b>	1967, 2075
<b>Integrated Circuits</b>	(See Semiconductors)
<b>Inverters</b>	71, 136, 288-294, 296, 298, 300-304, 833, 1104

## J

<b>Jacks</b>	(See Connectors)
<b>Joysticks</b>	760
<b>Jumpers</b>	(See Connectors)

## K

<b>Key Fobs</b>	2044, 2047, 2050, 2058, 2060
<b>Keyboards</b>	61
<b>Kits</b>	
Capacitors	837, 839, 873, 887, 890-891, 893, 895, 966, 979-980, 993, 996, 999
Connectors	13, 45-46, 1246, 1294, 1310, 1322, 1325, 1369, 1376-1377, 1380, 1382, 1388-1389, 1408, 1416, 1471, 1589, 1591, 1597, 1599, 1610, 1648, 1661, 2179, 2239-2240, 2277
Development	5, 8-23, 26-41, 43-52, 54-58, 60, 62-63, 66, 69, 77-79, 86, 100-101, 185, 199-200, 203, 205-206, 208, 212-215, 220-224, 229, 231-234, 236, 241-253, 255-257, 281, 283-285, 309-310, 319-320, 349, 359-361, 370-371, 457-458, 460, 615, 891, 1150, 1172, 1586, 1765, 1931, 2275

<b>Educational</b>	52
<b>EMI / RFI Suppression</b>	1066, 1150, 2265, 2267
<b>ESD</b>	615, 2253, 2267
<b>Ferrule</b>	1665-1666
<b>Graphical</b>	67
<b>Hand Tool</b>	1328, 1470, 2242, 2248
<b>Hardware</b>	8, 222-223, 250, 1172, 1388, 1470-1471, 1665, 1978, 2075
<b>Inductors</b>	1098, 1100, 1150, 1156, 1159, 1163
<b>LED</b>	75, 86, 100-101, 133, 203, 250, 348, 365, 1470-1471
<b>Mounting</b>	101, 1172, 1887, 2075
<b>Power Supply</b>	45, 365, 2275
<b>Potentiometers</b>	771, 795
<b>Prototyping</b>	38, 45-46, 241, 2263, 2272, 2275, 2277
<b>RF Adapter</b>	1294, 1310, 1322
<b>Semiconductor</b>	8, 10-20, 23, 26-28, 30-33, 35-36, 41, 43-50, 52, 54-57, 60, 62-63, 66-67, 69, 78, 86, 185, 199-200, 203, 205, 208, 220-224, 229, 233-234, 236, 241-242, 244-245, 248-253, 255-257, 281, 284-285, 310, 319-320, 346-349, 359-361, 365, 370-371, 422, 457-458, 460
<b>Serial-to-Ethernet</b>	47-50
<b>Trimmer Potentiometers</b>	795
<b>Wire / Cable / Tubing</b>	29, 45, 52, 101, 133, 1172, 1188-1190, 1193, 1209, 2275
<b>Knobs</b>	754, 761-762, 764, 778, 1818-1819, 1957-1962

## L

<b>Labels</b>	1169, 1172, 1178, 1378, 2212, 2260, 2266, 2270
<b>Lamps</b>	
Automotive	115, 135
CCFLs	136
Hardware	113, 135, 167-170, 1903
Incandescent	114-117, 119, 135, 137
Inverters	136, 1104
LED	94, 97-100, 104-109, 111-119, 121, 127-130, 135-143, 145-146, 150-153, 157, 161-162, 167-170, 369, 1848
Lenses	98-99, 108, 111, 118, 167-169
Panel Mount	114, 118, 121, 150-151, 153, 1903
Neon	114, 117-118
Sockets	118, 137, 167, 170, 1903
Ultra-Violet	136
<b>LCDs</b>	(See Displays)
<b>LEDs</b>	
AC	105, 179, 2148, 2164, 2213-2215
Automotive	115, 120, 135, 154-155, 646, 651, 1746
Backlighting	85-91, 133, 179, 312, 369, 651, 2168
Bar Graph	82
Bi-Polar	113
Blinking	141-142, 152
Circuit Board Indicators	113-114, 123-126, 131, 144, 149-150, 152
Display	59, 75, 81-84, 88, 158, 345, 651, 2213-2214
Drivers	68, 85-91, 106, 179, 203, 312, 345, 348, 358, 365, 369, 420, 451, 646, 2164, 2168
Dual Color	108-109, 111, 119-121, 123-126, 130, 132, 141-142, 144-146, 149-152, 155-157, 161
Fiber Optic	162, 173-174, 181
Flux	130, 143, 146, 153, 162
Hardware	59, 68, 70-71, 95, 100, 110, 113, 118, 133-137, 164-170, 173, 250, 345, 1470-1471, 1967, 2124
Hi-Power Emitters	94, 97-99, 102, 104, 106, 132, 182
Hi-Power Lighting Connectors	1470-1471
Incandescent Replacements	115, 135
Infrared	143, 146-147, 153, 156-157, 177, 181-182
Lenses	92-93, 98-99, 108, 110-111, 116, 118, 167-169
<b>Light</b>	
Arrays	82, 109, 133, 147, 185
Bars	82, 97, 133-135, 147
Engine	94-95, 97-100, 105-106
Pipes	164, 169-170
Ring	153
Low Current	112, 123-126, 128, 174, 348, 2164
Matrix	82, 88
Modules and Arrays	68, 71, 73, 82, 95, 100, 103-104, 109, 133, 135, 147, 161, 174, 185, 203, 250, 348, 451, 1693
Mounts	94-95, 101, 104, 110-111, 114, 120, 122, 124, 132, 135, 138-139, 145, 148-151, 153, 156, 161, 163-170, 177, 181-182, 651, 763, 1727, 1746, 1784, 1848, 1902, 1967, 2147
Multi-Color	100-101, 111, 119-121, 123-126, 130-132, 138, 141-146, 149, 151-152, 155-157, 161-162
Panel Mount	110, 114, 118, 120-122, 150-151, 153, 763, 1784
Rectangular	110, 143, 146
Resistor	112-114, 123-126
RGB	68, 70, 100-101, 119, 143, 149, 151, 155-156, 159, 162, 185
Sockets	101, 103, 137, 167, 170, 1902
Special Shaped	112, 130, 140, 142-143, 146, 152, 160
Super Bright	94, 96-102, 104-106, 112, 125, 128-130, 132, 134, 140-142, 153
Surface Mount	93-94, 96-97, 101-102, 104-107, 110-111, 119-120, 123-124, 127-128, 132, 138-139, 145, 148-149, 153-156, 158-159, 161, 163, 170, 177, 181-182, 646, 651, 161, 163, 170, 177, 181-182, 646, 651, 1470-1471, 1727, 1746
Tapelite®	162
Thru-Hole	107-109, 112-113, 128-131, 140-143, 145-147, 151-153, 157, 160-161, 163, 170, 182, 1471, 1727
Ultra Bright	112, 120, 154-155
Ultra-Violet (UV)	163
Xpandolite®	162
<b>LED Indication</b>	
<b>Indicators</b>	
Circuit Board	113-114, 123-126, 131, 144, 149, 152
Incandescent	114
LED	110, 113-114, 118, 120-126, 131, 144, 149-152, 162
Neon	114, 118
Non-Relampable	114, 120, 150
Panel Mount	110, 113-114, 118, 120-122, 150-151
Surface Mount	110, 120, 123-124, 149
<b>Lamps</b>	
Automotive	115, 135
CCFLs	136
Gas	137
Hardware	113, 135, 167-170
Incandescent	114-117, 119, 135, 137
Inverters	136
LED	107-109, 111-119, 121,

# Product Index

## M

**Memory** ..... (See Semiconductors)  
**Memory Connectors** ..... (See Connectors)  
**Microcontrollers** ..... (See Semiconductors)  
**Microphones** ..... 1942, 1945, 1954  
**Microphone Elements** ..... 1945  
**Microprocessors** ..... (See Semiconductors)  
**MOSFETs** ..... (See Semiconductors)  
**Motors** ..... 319, 1930-1932  
**Mounting Brackets** ..... 745, 751, 1976, 2027  
**Multimeter**  
Accessories ..... 29, 2218, 2226-2229, 2232  
Bench ..... 2218, 2227  
Digital ..... 2213, 2218, 2224, 2226-2229, 2232  
Graphical ..... 2229

## N

**NEMA**  
Enclosures ..... 2027-2028, 2030, 2033-2034, 2037-2038, 2046-2047, 2049  
Terminal Blocks ..... 1667  
**Networks**  
Capacitor ..... 689, 960  
Resistor ..... 680-683, 687-690

## O

**Operational Amplifiers** ..... (See Semiconductors)  
**Optical Encoders** ..... 193, 1739  
**Optical Network Devices** ..... 2001  
**Optical Sensors** ..... 174, 181, 183-185, 192-193, 359, 2001  
**Optoelectronics**  
Color Sensor ..... 181, 185  
Infrared  
Detectors ..... 191  
Diodes ..... 143, 147, 177, 181-182  
Emitters ..... 146, 177, 182, 191  
Encoder/Decoder ..... 193, 344  
High Power ..... 182, 344  
IRDA ..... 193, 344  
Photo Transistors ..... 143, 157, 181  
Receivers ..... 146, 181, 192  
Remote Control Receivers ..... 177  
Sensors ..... 181, 191-193  
Switches ..... 181  
Transceivers ..... 193  
**Optocouplers**  
Analog ..... 171-172, 175, 190  
Digital ..... 176  
Dual ..... 157, 178-179, 186-187, 189-190  
High Gain ..... 178  
High Isolation ..... 175-176  
High Speed ..... 175-176, 178, 187, 189-190  
High Voltage ..... 175, 179, 190  
Photo Darlington ..... 176, 178-180, 187  
Photo Interrupters ..... 157, 184  
Photo Transistor ..... 157, 176-177, 179-181, 184, 186-190  
Phototriacs ..... 184  
Random Phase ..... 177-178  
Schmitt Trigger ..... 178  
Standard ..... 171-172, 175, 290-294  
Zero Crossing ..... 177-178, 184, 186, 190  
**Opto Drivers** ..... 66, 85-87, 91, 179, 312, 369, 2168  
**Optoisolators** ..... 181  
**Photocouplers** ..... 186  
**Photodiodes** ..... 147, 181, 183  
**Photomicrosensors** ..... 2001-2002  
**Photosensors** ..... 157, 181, 185  
**Oscillators**  
Clock ..... 322-323, 349, 352, 354, 1021-1022, 1027, 1031-1032, 1035, 1037, 1039-1042, 1044-1045, 1052-1053  
MEMS ..... 1021-1022, 1042  
Programmable ..... 352, 1032, 1042, 1053-1054  
RF ..... 349, 535, 1060  
Silicon ..... 323, 349, 535, 1021-1022  
Surface Mount ..... 1020-1022, 1027-1028, 1030-1032, 1035-1037, 1039-1042, 1044-1045, 1053, 1060  
Voltage Controlled ..... 323, 352, 1027-1028, 1032, 1036-1037, 1041, 1054, 1060  
**Oscilloscopes** ..... 2222, 2225, 2229-2230, 2232  
**Outlet Strips** ..... 2024-2025, 2192-2194

## P

**Panel Meters** ..... 2213-2217, 2225  
**Panel Mount Indicators** ..... (See LED Indication)  
**Peripherals** ..... 221, 223, 243, 250, 279, 356, 380, 385, 1428, 1472, 1474, 1486  
**Photocouplers** ..... (See Optoelectronics)  
**Photo Diodes** ..... (See Optoelectronics)  
**Photomicrosensors** ..... 2001-2002  
**PLD** ..... (See Semiconductors)

**Plugs** ..... (See Connectors)  
**Potentiometers**  
Adjustment Tool ..... 794, 796  
Audio ..... 762, 764-772, 778  
Carbon ..... 766-767, 770, 772, 775, 777, 780, 787-788  
Cermet ..... 773, 777-783, 786, 788-796  
Clear Shaft ..... 763  
Conductive Plastic ..... 756, 758, 760-761, 773-778, 1991  
Dials Counting ..... 754, 756, 758, 761, 791  
Digital ..... 323-325, 343, 350, 758  
Dual ..... 763, 765-768, 778, 1991  
Dual Ganged ..... 765-768, 778  
Guitar ..... 770-771  
Illuminated ..... 763, 768  
Incremental ..... 776, 1991  
Industrial ..... 761, 774-776, 781-782, 1991, 1996  
Joystick ..... 760, 776  
Kits ..... 771, 795  
Knobs ..... 754, 761-762, 764, 778, 790, 1962  
Linear Motion ..... 760, 763-764, 768, 771, 773, 776, 1991, 1996  
Miniature ..... 762, 764, 766, 782-783, 789  
Motor Driven ..... 768  
Multi-Turn ..... 755-756, 758-759, 761, 786, 791-796, 1991  
Open Frame ..... 760, 779-781, 783  
Panel Control ..... 755-756, 761-762, 764-767, 772-773, 776-777  
PC Mount ..... 762-769, 773, 776-777  
Precision ..... 325, 754-761, 775, 791, 1996, 2255  
Precision Dials ..... 754, 756, 758, 761, 791  
Programmable ..... 350  
Rheostats ..... 754  
Rotary ..... 754-756, 761-769, 771, 773, 777-778, 1991, 1996  
Round ..... 779-781, 790  
Sealed ..... 761, 778, 781-784, 786, 789, 792-794, 796, 1991  
Single Turn ..... 758, 761, 763, 765, 773, 777, 779-784, 786-791, 1991  
Slide ..... 762-763, 768-769, 772  
Snap-In ..... 764, 768-769  
Surface Mount ..... 779, 781, 783-784, 786-787, 789, 791, 794-796  
Trimmer ..... 779-784, 786-796  
Wirewound ..... 754-755, 758-759, 761, 767, 774-776, 1991

**Potting**  
Boxes ..... 2048, 2051  
Compound ..... 2272  
**Power Conditioning** ..... 174, 2083, 2190, 2193  
**Power Contactors** ..... 1885, 1928, 2094  
**Power Cords**  
AC ..... 1239-1243, 2145, 2170-2171, 2174, 2181  
DC ..... 1263, 2170-2171  
**Power Distribution Units** ..... 2025, 2192-2193  
**Power Entry Modules** ..... 1249-1260, 2184  
**Power Filters** ..... 273, 345, 379, 404, 509, 611, 631, 1251-1252, 1254-1257, 1259-1262, 2111, 2160, 2184-2189  
**Power Inlets/Outlets** ..... 1244-1246, 1248, 1250-1261, 2024-2025, 2143, 2190, 2192-2194  
**Power Inverters** ..... 2192  
**Power Over Ethernet** ..... 460, 2171, 2180  
**Power Management** ..... (See Semiconductors)  
**Power Protection**  
DI/N Rail ..... 2160, 2191  
Power Strips ..... 2024-2025, 2190, 2192-2194  
Surge Suppressors ..... 509, 631, 2160, 2190-2194  
UPS Systems ..... 2190-2192  
**Power Supplies**  
AC ..... 2092-2093, 2134, 2148, 2153, 2163-2164, 2170-2171, 2178, 2181-2183, 2275  
AC-DC ..... 16-18, 89-90, 449, 2112, 2134-2169, 2172-2183, 2232  
AC Plug Kit ..... 2172, 2179  
Accessories ..... 16, 45, 95, 133, 345, 1502, 1504, 1928, 2137, 2146, 2156, 2158-2160, 2163, 2165-2167, 2169-2174, 2177, 2179-2181, 2221-2222, 2232  
Bench Top ..... 2220-2221, 2225, 2275  
DC ..... 16-18, 89-90, 345, 434-437, 449, 1118, 2134-2149, 2151-2159, 2161-2166, 2168-2183, 2192, 2220, 2222, 2225, 2232, 2275  
DC-DC Converters  
Isolated ..... 2102-2126, 2133, 2160-2161, 2163, 2167  
Non-Isolated ..... 2107, 2110, 2120, 2127-2129, 2131-2132, 2222  
DC Loads ..... 2222  
Desktop ..... 2145, 2169-2171, 2173-2178, 2180-2182, 2192  
DIN Rail ..... 1928, 2143, 2153, 2156, 2158-2160, 2166-2167, 2191  
Dual Output ..... 2136-2137, 2141-2142, 2145-2146, 2149, 2152, 2157, 2161, 2163, 2165, 2167, 2173, 2175, 2181  
External ..... 174, 2123, 2145, 2153-2154, 2156, 2158-2160, 2166-2183  
Front-End ..... 2142, 2147, 2163

High Power LEDs ..... 85, 87, 90, 345, 365, 2150, 2164, 2168  
Industrial ..... 174, 267, 833, 1021-1022, 2153, 2155, 2159-2161, 2163, 2166-2167, 2170-2171  
International ..... 89-90, 1239, 2092-2093, 2112, 2135-2146, 2148-2162, 2165-2183  
Linear ..... 174, 2133, 2137, 2146, 2163, 2165  
Medical ..... 267, 2125-2126, 2137-2145, 2150-2151, 2170-2172, 2174, 2177, 2179  
Open Frame ..... 2123, 2126, 2135-2146, 2148-2152, 2154, 2157, 2161-2162, 2165, 2168  
Quadruple Output ..... 2152, 2157, 2225  
Rack Mount ..... 2161, 2163  
Regulated ..... 2151, 2175, 2192  
Single Output ..... 89-90, 1928, 2135-2146, 2148-2149, 2151-2163, 2165-2179, 2181-2183, 2220-2221, 2225  
Switching ..... 2135, 2138-2145, 2148-2152, 2155-2157, 2167-2168  
Triple Output ..... 2136-2140, 2143-2146, 2148-2150, 2152, 2157, 2161, 2163, 2165, 2167, 2175, 2177, 2220-2221, 2225  
Universal Input ..... 2141, 2143, 2145, 2148-2149, 2155, 2164, 2170-2171, 2181-2182  
Unregulated ..... 2146, 2168, 2182-2183  
Wall Plug-In ..... 2145, 2154, 2168-2172, 2175-2176, 2179-2180, 2182-2183  
**Printers** ..... 266-267, 843, 1178  
**Probes**  
Oscilloscope ..... 2231-2232, 2240  
Thermocouple ..... 2226  
**Programmers, Universal** ..... 258-260  
**Prototyping Products**  
Breadboards ..... 38, 45-46, 241, 2274-2280  
Conductive Silver Lubrication ..... 2263, 2272, 2274  
Epoxies ..... 2263, 2272  
Etching ..... 2272  
Extender Cards ..... 2281  
Glass Laminate ..... 2274  
Jumper Wires ..... 2275, 2278-2279  
Kits ..... 38, 45-46, 241, 2263, 2272, 2275, 2277  
Pens ..... 2263  
Perboards ..... 38, 45-46, 241, 2051, 2263, 2274, 2276-2280  
Pins ..... 2234-2235, 2281  
Power Supply ..... 2275  
Silicones ..... 2272  
Silver Epoxy Kit ..... 2263, 2272  
Silver Plated Wire ..... 2245, 2281  
Socket and Bus Strips ..... 2275, 2281  
Terminals ..... 2281  
Toner Transfer System ..... 2275  
**Punches** ..... 2246, 2280

**Racks** ..... 2022  
**Receiver Modules** ..... 37, 203, 346-349  
**Rectifiers** ..... (See Semiconductors)  
**Relays**  
Automotive ..... 1863-1867, 1923-1924  
Cadmium Free ..... 1846  
Contactors ..... 1912, 1917-1918  
DIN Rail ..... 1875, 1878-1879, 1881, 1887, 1900, 1903, 1908-1911, 1913, 1915-1916, 1921-1922  
Frequency ..... 1830-1835, 1868, 1872, 1888  
General Purpose ..... 1832-1834, 1851-1852, 1864, 1880, 1902-1924  
Heavy Duty ..... 1854, 1906, 1912, 1917, 1923  
High Capacity ..... 1851, 1910  
High Current ..... 368, 1861, 1888, 1902  
High Frequency ..... 1830, 1832-1835, 1868, 1872, 1888  
High Isolation ..... 1832-1833, 1849  
High Sensitivity ..... 1851-1852  
Impulse ..... 1917  
I/O Modules ..... 1876, 1879, 1891-1892  
Low Signal ..... 1836-1845, 1918  
MOSFET ..... 1874, 1877, 1890  
PCB Mount ..... 1632, 1830-1831, 1836-1863, 1865-1866, 1870-1873, 1875, 1880, 1887, 1920, 1923-1924  
PhotoMOS ..... 1877, 1890, 1894-1898  
Power ..... 59, 351, 365, 368, 1846-1864, 1875, 1877, 1880, 1885, 1888, 1899-1900, 1902, 1906, 1908-1909, 1911-1913, 1917, 1920-1921, 1923-1924  
Reed ..... 1868-1873  
Safety ..... 1902, 1913, 1919, 1922  
Signal ..... 368, 1833, 1836-1845, 1866-1867, 1918  
Sockets ..... 1632, 1855-1859, 1887, 1890, 1902-1905, 1907, 1909-1911, 1914-1916, 1919  
Solid State ..... 1848, 1874-1901, 1918  
Surface Mount ..... 1832-1833, 1837-1838, 1840-1842, 1844, 1864, 1866-1867, 1869, 1872, 1874, 1877, 1893-1898, 1901, 1920  
Time Delay ..... 1905  
Voltage Sensors ..... 1905  
**Resistors**  
Adjustable ..... 745

Aluminum Housed ..... 729, 747, 751, 753  
Arrays ..... 680-690  
Bias ..... 550, 559  
Carbon Composition ..... 722  
Carbon Film ..... 722  
Cement ..... 727  
Ceramic Composition ..... 741  
Chip ..... 680, 682-688, 692-720, 730-733, 737  
Current Sensing ..... 174, 367, 691-692, 694-695, 705, 709-711, 713-718, 720-721, 730, 733-738  
Fireproof ..... 748  
Heat Sink Mountable ..... 729-735, 739, 746-747, 751  
Metal Film ..... 706-707, 712, 721, 723-725, 727-728, 736, 748-749  
Metal Oxide ..... 743, 748  
Metal Strip® ..... 715-718  
Microwave ..... 719  
Molded ..... 689, 695, 718, 722, 726, 739, 741, 744  
Mounting Hardware ..... 739, 744-745, 751  
Networks ..... 681-682, 687-690  
Non-Inductive ..... 729, 734-735, 739, 741-743  
Open Air ..... 691, 721  
Planar ..... 730, 734, 743, 746  
Power ..... 174, 367-368, 559, 691, 699-700, 702-703, 715-718, 720, 726-727, 729-753  
Precision ..... 325, 681, 690, 692-693, 698, 704, 712, 718-719, 721, 725, 728, 735, 746-747  
RC Networks ..... 689  
Silicone Coated ..... 726, 730, 738, 742-743, 751  
SOT-23 ..... 689  
Surface Mount ..... 367, 550, 680, 682-683, 690-720, 729-735, 738-739, 746-747, 751  
Thick Film ..... 684-688, 691, 693-694, 696-697, 701-703, 711, 713-717, 719-721, 730-733, 739-740, 742, 750-751  
Thin Film ..... 689-692, 698, 704, 708, 712, 719, 739  
TO-220 ..... 731-734, 750  
Variable ..... (See Potentiometers)  
Vitreous Enamel ..... 726, 744-745  
Wirewound ..... 718, 726-727, 729, 733, 738, 741-742, 744-745, 747-748, 751-753  
**Resonators** ..... 1025, 1029-1030, 1043, 1048-1049, 1056-1057  
**RF**  
Absorber Sheets ..... 2265  
Connectors ..... (See Connectors/RF)  
Transceivers ..... 12, 14-20, 22, 28, 53  
**RFI Suppression Coils** ..... 1101  
**RFID**  
Modules ..... 14, 23, 31, 52, 346-349  
Products ..... 52, 345-349  
**Rheostats** ..... 754  
**Rings** ..... 1944, 1950

**Semiconductors**  
Accelerometers ..... 52, 319-320, 362  
Actuators ..... 380  
ADCs ..... 212, 214, 306-308, 325-328, 344-345, 373-378, 391, 440  
Alternators ..... 601, 603-604  
Amplifiers ..... 179, 228, 299, 302-303, 308, 351, 358, 366, 387, 391-419, 431, 448, 542  
Analog Switches ..... 305, 318-319, 339-342, 345-349, 351, 353, 355, 365-366, 368, 385-386, 388-390, 460, 611  
ASSPs ..... 45-46, 352  
Audio  
Amplifiers ..... 308, 351, 387, 391, 399, 402, 404, 418, 448, 542  
Bipolar Transistors ..... 550  
ICs ..... 307-309, 318-319, 338, 345, 351, 359, 378, 387, 391, 402, 418, 484  
Battery Charger ICs ..... 430, 442, 465, 481  
Bridges ..... 17, 26, 45-46, 240, 319, 345, 354-355, 358, 364-366, 380, 404, 440, 490, 498, 505, 508, 510-511, 519, 524, 527, 530, 562  
Bluetooth  
CAN ..... 194, 213-216, 223, 228, 231, 261, 290, 321, 344-345, 352, 379, 619, 631  
Card Reader ..... 349, 361, 371  
Clocks ..... 50, 59, 250, 278, 282, 310, 317, 322-323, 344, 348, 352, 354, 360, 365, 370, 372-373, 466, 448  
CODECs ..... 45, 307, 345, 378, 391  
Companders ..... 403  
Comparators  
General Purpose ..... 212, 214, 318, 351, 357, 404, 401, 417, 459  
High Speed ..... 459  
Low Power ..... 305, 357, 459  
Low Voltage ..... 305, 459  
Micropower ..... 459  
Precision ..... 305  
Voltage ..... 305, 318, 351, 400, 459  
Computer-on-Module ..... 58  
Controllers  
Capacitive Touch Sensor ..... 310, 319, 363  
Card ..... 349, 361  
DC-DC ..... 309, 402, 420, 424, 447, 460

## R

**S**

## S

**T**

# Product Index

Flash	267	MEMS	362	74C	300	Serial Communications Controllers	45, 256
Interface	346	MOSFET	190, 313, 344-345, 352, 358, 364, 366, 368, 420, 447, 466, 485, 510, 535	74F	291, 302	Supervisors	350, 365-366
Hotswap	345, 367, 440, 484	Motor	211, 309, 351, 358, 364, 367, 386, 402, 485, 631	74HC	288, 291, 297, 299, 302, 304	USB	43-46, 52, 63, 194, 203-204, 209, 211, 214, 216-217, 221, 223, 236-238, 240-241, 243, 250, 258
LCD	63-64, 66-67, 211, 240, 312, 345	Peripheral	380, 385	74HCT	288, 291-293, 297, 299, 302	Microprocessors	54-55, 59, 194, 205, 217-218, 221, 243, 252-253, 256-257, 387, 420
Motor	211, 228, 256, 309, 312, 367, 402, 424, 480, 485	PWM	309, 466	74HCU	302	Microwave	394-395
Off-line	427, 446, 450-451	Relay	351, 368	74LCX	288, 297, 304	Mixers	419
PWM	45, 308-309, 426, 456, 460, 466-467, 484	DSCs	219, 228-229, 250, 309, 319	74LS	302	Modem ICs	13, 49, 352, 370
RAM	429	DSPs	201, 219, 228, 252-253, 309	74LV	293-294, 302	Monitors	
Serial Communications	45-46, 256	EEPROMs		74LVLC	288, 297, 304	Current	313, 349, 367, 416, 431, 434, 440
Switch Mode	485	2-Wire	269-270, 273, 278, 280	74LVXC	288	Reset	313, 365-366, 429-434, 440
USB	45-46, 63, 203, 211, 240, 355-356, 361, 385, 420, 423	3-Wire	269-270, 274, 278, 280	74LX1G	297	Shunt	416
Voltage	85, 257, 346, 367, 402, 421, 423-424, 426, 429, 440, 456, 461, 480	I2C	269, 273, 280, 440	74V1G	297	Voltage	349
Converters		Low Voltage	269-270, 273-274, 278, 280-281	74VHC	288-289, 304	MOSFET Arrays	538, 560
AC-DC	357, 449-450, 460	Microwire	270, 274, 280	74VHCT	288-289	MOSFETs	
Analog to Digital (ADCs)	306-308, 325-328, 344-345, 373-378, 391	Parallel	262, 275, 358	75L	278	Auto-Protected	573, 579
Boost	313	Serial	52, 262, 269-270, 273-274, 278, 280-281, 358	75V	278	Bi-Directional	591
Buck	422	SPI	270, 274, 280	Buffer	288-298, 300-304, 311, 338, 372	Complementary	538, 560, 562, 564-566, 573-574
DC-DC	350, 357, 402, 420, 422, 424, 447, 482	Emulators	201, 223, 235, 245, 247, 250, 256-257	CD4K	289	Common Drain	564
Digital to Analog (DACs)	307, 329-331, 344-345, 357, 376-378, 391	Encoders	19-20, 193, 344, 346-349	Dual Gate	178, 288, 297-298, 300, 302-304, 579	Depletion Mode	560, 569, 581
Frequency	394	EPROMs	262	ECL	295, 400	DMOS	561-562, 581
High Voltage	367, 402, 449	Ethernet	17, 25-26, 42, 47-50, 56-57, 59, 216, 240, 309, 344, 361, 364, 371, 458, 460	Flip-Flop	288-289, 295-296, 298, 300-303	Drivers	190, 313, 352, 364, 366, 368, 447, 466, 485, 510, 535
Light-To-Digital	185	Evaluation Boards	8, 10-20, 23, 26-33, 35-37, 39-41, 43-50, 52-57, 59-63, 66, 69, 78, 86, 185, 193, 196, 199-200, 203, 205, 208, 220-224, 229, 232-234, 236, 240-243, 251, 255-257, 281, 283-285, 309, 312, 317, 319-320, 349, 359-363, 365-366, 370-371, 373, 376, 396, 422, 448, 457-458, 460, 615	FXL	288	Dual	190, 352, 538, 560-564, 566, 571, 578-579, 581-582, 589, 591-593, 596
Light-To-Frequency	185	Evaluation Modules	8, 11-13, 15, 17-20, 23, 26-27, 31, 37, 40-41, 43-45, 47, 49-50, 52-53, 55-57, 185, 245, 250-251, 346-349, 373, 376, 386, 418, 460, 484	Inverter	288-294, 296-298, 300-304	Enhancement Mode	538, 560-562, 568-569, 571, 576-582
Light-To-Voltage	185	Filters		Level Translators	295-296, 325, 347	High Power	190, 366, 368, 500, 566
Sample Rate	308	Flash Memory	261, 271-272, 275, 279, 287	Multi-Gate	288-289, 295-296, 298, 300-304	IGBTs	190, 447, 500, 569, 579, 581, 583
Signal	228, 367, 394	FPGAs	284-287	Programmable	46, 202, 262, 282-287, 295	Load Switches	420, 427, 484, 592
Voltage	185, 345-346, 367, 402, 424, 447, 449, 456	Gyroscopes	362	Single Gate	278, 297, 303-304, 579, 588	Logic Level	560, 571, 573, 578-579, 588, 591, 596
Core Modules	40-41, 50, 54-56	Hall Effect ICs	66, 357, 367-369	STPIC	46, 297	Low Power	352, 563-564, 588
CPLDs	204, 282-283	Hotswap Controllers	345, 367, 440, 484	TinyLogic	289	Matched Pair	560
Current Monitors	313, 349, 367, 416, 434	Hybrid Controllers	219	Transceiver	288-289, 292-294, 297-298, 300, 303-304, 308, 315-316, 346-349, 361, 364	Medium Power	535, 564-566
Current Reference	421, 426, 480	IGBTs	190, 447, 500, 543, 569, 579, 581, 583	Memory		N-Channel	537-538, 560-571, 581-596
DACs	307, 329-331, 344-345, 357-358, 376-378, 391	Infrared Emitters	(See Optoelectronics)	2-Wire	269-270, 273, 276-278, 280	P-Channel	420, 537-538, 560, 562-566, 568-569, 571-574, 576, 578, 580-584, 589-592
Data Transmission		Infrared Receivers	(See Optoelectronics)	3-Wire	269-270, 274, 278, 280	Power	15, 190, 368, 447, 466, 485, 500, 510, 535, 563-570, 572-579, 582-588, 591
Bluetooth	(See Bluetooth)	Interface		Data Flash	262	Quad	560
LVDS	318, 379	Accelerators	356	DRAM	268	RF	15, 535, 571
RS232	25-26, 42, 45-46, 48, 314, 332-335, 364, 381-382, 446	ARCNET	361	EEPROMs	262, 269-270, 273-275, 278, 280-281, 358	Single	366, 466, 538, 561-571, 574-596
RS422	25-26, 42, 45-46, 314, 335-338, 364, 382-383, 446	10/100	371	Embedded	267	Small Signal	560, 568-569, 571, 573, 583
RS485	25-26, 42, 45-48, 314-315, 335-338, 364, 379, 384	Bluetooth	(See Bluetooth)	EPROMs	262	SYNCFET	563-564
Wireless	11-13, 15-18, 25-29, 32, 39-42, 47-49, 53, 56-57	CobraNet™	309	FIFOs	265	TRNCFET	573, 589-596
Decoders	19-20, 193, 344	Ethernet	17, 25-26, 42, 47-48, 50, 56, 240, 309, 344, 361, 364, 371, 458	Flash	228, 231, 234, 261, 266, 271-272, 275, 279, 287	Zero Threshold	560
Delay Lines	323	Expanders	240, 338, 344, 346, 386	F-RAM	234, 276-277	Multiplexers	31, 290-300, 302, 342, 347-348, 368, 388, 460
Development Kits	(See Kits)	I2C	45-46, 240, 316, 344-347, 352, 358, 386, 440, 457	I2C	269, 273, 276, 280, 352	Operational Amplifiers	
Digital Potentiometers	323-325, 343, 350	I/O	338, 344, 346-347, 356, 386	Low Voltage	269-270, 273-274, 276-278, 280-281, 352, 423	CMOS	392, 402, 405-406
Diodes		IrDA	344	Microwire	270, 274, 280	Dual	392, 397, 401-402, 404-416, 418
Arrays	499, 538, 605-606, 615, 622, 626	Isolators	379, 386, 457-458	Modules	261	General Purpose	401, 403-404, 414-416
Current Regulating	488	LVDS	318, 338, 354, 379	NonVolatile	234, 275-277, 281, 480-481	High Performance	392, 397, 402, 404
Damper	502	Motor Control	351	Parallel	262, 266, 271-272, 275, 277, 352, 358	High Speed	403, 407-408
ESD Protection	492, 509, 615, 619, 621-626	PCI	316, 354-356, 379-380	RAM	234, 263-265, 268, 275-277, 281	Linear	392, 414-415
Fast Recovery	502-503, 506-507, 510, 530	PCI-Express	316, 348, 355, 381	Serial	223, 261-262, 269-271, 273-274, 276, 278-281, 352, 358	Low Noise	394, 397, 403-406, 410-411
General Purpose	176, 489, 508-509, 520, 615	PHY	204, 348, 371, 379, 381	SPI	270, 274, 276-277, 279-280	Low Power	392, 394, 402-406, 408-410
Infrared	(See Optoelectronics)	RS232	25-26, 42, 45-46, 48, 50, 314, 332-335, 364, 381-382, 446	SRAM	263-265, 268, 352	Low Voltage	392, 402-403, 406
Laser	176	RS422	25-26, 42, 45-46, 50, 314, 336-338, 364, 382-383, 446	UNI/O™	269	Micropower	392, 406
Low Leakage	499	RS485	25-26, 42, 45-48, 50, 314-315, 335-338, 364, 379, 384	Microcontrollers		Power	392, 394-396, 398-399, 401, 403-406, 408-410, 418
Modules	510, 530	Serial-to-Ethernet	25, 49-50, 223	8051	198, 222-223, 230-232, 234, 236-240	Precision	392, 405, 408-413
Photo	176	Serial-to-Parallel	45-46, 367	8-Bit	52, 66, 194-198, 209-215, 219, 225, 227-228, 230-240, 243-244, 247, 254-255, 257	Programmable	401, 405
PIN	486, 508, 511	SIM	351	16-Bit	197, 215-216, 219, 225-228, 244, 247-251	Quad	392, 397, 401-402, 404-413, 415-416
Schottky Barrier	486-489, 491, 493-494, 499, 503, 508-512, 516-517, 520, 523, 531	Smart Card	349, 351, 371	32-Bit	50, 194, 196-198, 206, 209-210, 216-217, 228, 230-231, 233, 242, 244, 250-251, 255	Rail-to-Rail	392, 404-406, 408
SCRs	489, 530, 604	SPI	45-46, 240, 279, 316, 344-345	ARM	194, 196, 198, 222-223, 230-231, 235, 242, 250-251	Single	392, 397, 401-402, 404-416, 418
Small Signal	488-489, 493, 502, 511-512, 517, 531	Touch	331	AVR	194-197, 199-200	Standard	397-399, 414-415
Stealth™	502-503	UARTs	29, 45-46, 50, 240, 315-316, 332, 344, 349	BASIC Stamp	52-53	Triple	408
Surge Protection	492, 509, 605-607, 609-610, 614-618, 621-628	USB	14, 20, 26, 29, 43-46, 52, 223, 236-237, 240-241, 243, 258, 290, 292-294, 316, 345, 355-356, 361, 364, 379, 385, 457, 611, 624	CAN	194, 213-216, 223, 228, 231, 261	Variable Gain	395
Switching	487-488, 490, 493, 508, 511, 517, 520, 523	Wireless	13-14, 16-18, 20, 25-26, 29, 36, 39-40, 42-43, 47-49, 56, 234, 256-257, 346-349, 371	Capacitive Touch	66, 197, 204, 236, 248	Wideband	394-396, 399, 406, 411-412
Trigger	503, 604	IQ Modulators	33	ColdFire®	209, 216-217, 222	Optocouplers	(See Optoelectronics)
TVS	492, 499, 509, 511, 520, 605-610, 614-618, 620-624, 626-628	LIU	317	Compilers	45, 222-223, 242	PFC	309, 426-427, 447, 450-451, 460, 467-468, 518
Ultra Fast Recovery	502	Logic		Core Modules	41, 50, 54-56	Power Management	
Varactor	499, 508, 523	4000	290, 297-298, 400	Cortex™	197, 223, 230-231, 242, 251	Battery Management	365, 430, 442, 453, 461, 465, 480-482
Zener	488-489, 491-492, 494-495, 501-502, 511, 513-514, 520, 523, 531-533, 626	74ABT	299-300	Development Tools	30, 41, 52-53, 66, 199-201, 205, 208, 220-223, 229, 231-234, 236, 241-245, 247-257, 461	Battery Protection	429-430, 453, 482
Drivers		74AC	288, 298-300	Emulators	201, 223, 235, 245, 250, 255-257	Charge Pumps	434, 440, 442
Audio	359	74ACT	288, 298, 300	Flash	45, 50, 54-55, 194-198, 209-217, 221, 223, 225-228, 230-232, 234-240, 242-244, 247-250, 254-256, 261	Comparators	305, 318, 351, 357, 400-401, 417, 459
Bus	345, 485, 631	74AHC	300	General Purpose	63, 210-216, 219, 243-244, 461	Darlington Arrays	459
Display	66-68, 345	74AHCT	298, 300	HCS08	210-215	DC-DC Converters	350, 357, 420, 422, 424, 447, 460, 482
EL Backlighting	66	74ALS	300	HCS12	215-216	Digital Isolators	379, 457-458
GaAs	395-396, 535	74ALV	300, 302	Mixed-Signal	202, 237	Energy Harvesting	37, 305, 370
H-Bridge	358, 364, 366, 510	74ALVCH	291, 298	OTP	231-232, 239, 243-244, 250, 256-257	Hotswap Controllers	345, 367, 440
High Side	319, 345, 366-367, 404, 458	74AUC	300	PICxxx	225-228	ICs	305, 318, 357, 365-368, 370, 379, 420, 423, 427-440, 442, 449-451, 453, 456, 459-461, 464-485
High Voltage	85, 345, 365, 367, 402, 631	74AUP	288, 291, 300	Processor Companions	234	Low Dropout	357, 421, 423, 425, 437-438, 441, 444, 453-455, 462-465, 470, 472, 485
LCD	66-68, 211, 312, 345, 348, 358	74AVC	291, 298, 300	Programmers	43, 45, 52, 207-208, 235, 246, 258-260	Offline ICs	427, 445-446, 449-451
LED	68, 85-87, 179, 203, 312, 345, 348, 358, 365, 369, 420, 451, 2168	74BCT	300	PRoC	204	POE	458, 460, 477-478
Line	299, 332-338, 352, 368, 380, 387, 631			PSoC	422, 482-483	POL	422, 482-483
Low Side	319, 458			RISC	194-196, 198, 210, 216, 225-227, 231, 235, 247	Power Control ICs	351, 370, 423, 428, 485
Power Supply	85-87, 345, 352, 365-366, 368, 379, 440, 2168					Power Conversion	449-451, 460

# Product Index

Power Factor Correction . . . . .	309, 426-427, 447, 450-451, 460, 467-468	Stepper Motors . . . . .	319	Current . . . . .	174, 231, 273, 346-349, 357, 359, 386, 393, 631, 645-647, 1695, 2007	Directional . . . . .	1736
Power Switches . . . . .	318, 351, 357, 363-366, 368, 420, 422, 427-428, 434-437, 442, 445, 447, 449, 455-456, 460, 611	Supervisors . . . . .		Encoders . . . . .	193	Door . . . . .	1807, 1902
Pulse Width Modulators . . . . .	425-427, 437, 455-456, 460, 462, 466-467, 484	Microprocessor . . . . .	350, 365-366, 420, 442	Fiber Optic . . . . .	174, 181	Door Contact . . . . .	1807, 1902
Smart Power Modules . . . . .	427	Power Management . . . . .	423, 431-434, 442, 447, 462, 476-477	Filter . . . . .	273, 386, 631	Emergency Stop . . . . .	1742-1743, 1745, 1766-1767
Supervisory Circuits . . . . .	350, 365-366, 420, 423, 431-434, 442, 447, 462, 476-477	Voltage . . . . .	365-366, 423, 431-434, 442, 447, 462, 476-477	Flow . . . . .	2005, 2007	Encoders . . . . .	346-349, 1736-1740
Switching Regulators . . . . .	357, 434-437, 442, 445, 447, 455-456, 461, 468-470, 485	Switches . . . . .		Fluid . . . . .	181	Foot . . . . .	1756
USB . . . . .	379, 420, 423, 427, 457, 611	Analog . . . . .	305, 318-319, 339-342, 345-348, 351, 353, 355, 357-358, 368, 385-386, 388-390, 460, 611	Hall Effect . . . . .	181, 357, 1991, 1993, 1997	Hook . . . . .	1712
Voltage Comparators . . . . .	305, 318, 351, 357, 400-401, 459	Broadband . . . . .	349, 395-396	Infrared . . . . .	181, 191-193, 344, 359, 1992	Illuminated . . . . .	
Voltage Detectors . . . . .	452-453, 462	BUS . . . . .	345-347, 353	Linear . . . . .	185, 357, 771, 1990-1991, 1993, 1996-1997, 2007	Paddle . . . . .	1796
Voltage References . . . . .	400, 421, 426, 438-440, 442, 447, 461-462, 478-480	4PDT . . . . .	318, 1345	Load Cells . . . . .	2018	Pushbutton . . . . .	1742-1744, 1746, 1748, 1751-1758, 1761-1769, 1771-1773
Voltage Regulators . . . . .	365, 368, 421, 423-425, 428, 442-443, 445, 447, 453-456, 461-465, 468-476, 478, 485, 611	DPDT . . . . .	318, 341, 345, 389, 395	Magnetic . . . . .	158, 1990, 1992-1993, 1997, 2003	Rocker . . . . .	1765, 1790-1793, 1795-1798
Power Measurement . . . . .	231, 308, 370	DPST . . . . .	318, 341, 389	Magnets . . . . .	2003	Selector . . . . .	1742-1743, 1745
Power Switches . . . . .	366, 368, 395, 420, 427, 460, 485, 521, 591, 611	High Side . . . . .	319, 345, 366, 428	Photoelectric . . . . .	2000-2002	Slide . . . . .	1805-1806
Prescalers . . . . .	394	LAN . . . . .	353, 385	Photomicrosensors . . . . .	2001-2002	Stable . . . . .	1727, 1729-1730
Programmable Logic . . . . .		Line . . . . .	365, 368, 430	Position . . . . .	183, 1990-1997	Toggle . . . . .	1784
CPLDs . . . . .	282-283	Load . . . . .	420, 427, 484	Pressure . . . . .	647, 2005, 2008-2018	Indicator . . . . .	434, 762
EEPLEDs . . . . .	262	Multiplexer . . . . .	342	Proximity . . . . .	174, 191, 319, 359, 1997-2000, 2003	Key Pushbutton . . . . .	1743, 1750
Evaluation Boards . . . . .	46, 283	P-Channel . . . . .	420, 554, 569, 591-592	Reflective . . . . .	181, 193, 2002	Kits . . . . .	319, 460, 1765
Flash . . . . .	287	PCI-Express . . . . .	348, 353, 355	Speed . . . . .	52, 183, 231, 344, 346-349, 631, 1997	Leaf . . . . .	1712
FPGAs . . . . .	284-287	Power . . . . .	318-319, 345-349, 351, 357, 365-366, 368-369, 386, 395-396, 422, 426-428, 430, 434-437, 442, 445, 447, 449, 455-456, 460, 468-470, 484-485, 521, 542, 549, 554, 559, 569-570, 591, 611, 2168	Reed . . . . .	2003-2004	Lever and Push Operation . . . . .	1373, 1736, 1738, 1748, 1784, 1790, 1799
Mixed Signal . . . . .	283, 287	RF . . . . .	349, 395-396, 428, 508, 542, 549	RFID Products . . . . .	14, 31, 52, 346-349	Limit . . . . .	427, 434, 1715, 1825-1828
PProC . . . . .	201	SP3T . . . . .	318, 389, 395, 460	Rotary . . . . .	771, 1990-1991, 1996	Line Interrupt . . . . .	1712
PSoC . . . . .	203	SPDT . . . . .	318, 341, 349, 353, 388-390, 395, 428, 460	Temperature . . . . .	14, 43, 52-53, 273, 338-339, 344, 346-349, 352, 357, 361, 363, 386, 644-646, 648, 1996, 2006	Line Voltage . . . . .	1802
Software . . . . .	282	SPST . . . . .	318, 339-341, 388-390	Tilt . . . . .	2004-2005, 2018	Magnetic . . . . .	1807, 1938-1939
Programmable System Devices . . . . .	284	USB . . . . .	345, 353, 355, 385, 420, 427, 611	Vane . . . . .	1997	Multi-Directional . . . . .	1722, 1736
Programmers . . . . .	12, 43, 45-46, 52, 61-62, 195-196, 202, 207-208, 231, 234-235, 246, 258-260, 262, 282, 285, 295, 298, 350, 352, 356, 369, 401, 405, 421, 437, 462, 597, 602	Video . . . . .	318, 353, 385, 395	Vibration . . . . .	2005, 2018	Navigation . . . . .	1726, 1736, 1745
Protectors . . . . .	597, 607-608, 612-613, 625-627	Temperature Sensors . . . . .	14, 43, 52-53, 273, 338-339, 344, 349, 352, 357, 361, 363, 386	Sensor/Actuator Boxes . . . . .	1459	Optical (Photomicrosensors) . . . . .	181
Pulse Width Modulators . . . . .	45, 215, 309, 369, 425-427, 437, 455-456, 460, 466-467, 484	Thyristors . . . . .		Servers . . . . .	25-26, 39, 42, 47-48, 50, 57, 267	Paddle . . . . .	1796
RAM . . . . .	50, 214, 230, 234, 243, 268, 275-277, 281, 429	Alternistors . . . . .	601, 603-604	Shunts . . . . .	416, 426, 439-440, 462, 478-479, 651, 746-747, 1512, 1526, 1553, 1561, 1587, 1594, 1635, 2214, 2216	Piezo . . . . .	1769-1770
Real Time Clocks . . . . .	247, 250, 278, 322, 344, 348, 365, 370, 373	Filters . . . . .	602	Shunts . . . . .	416, 426, 439-440, 462, 478-479, 651, 746-747, 1512, 1526, 1553, 1561, 1587, 1594, 1635, 2214, 2216	Push . . . . .	1373, 1736, 1738, 1748
Receivers . . . . .	19-20, 28, 30, 37, 192, 332-338, 352, 379, 381-384, 387, 485	Overvoltage Protectors . . . . .	597, 621	Smart Card Readers . . . . .	349, 361, 371, 1472, 1474, 1486	Pushbutton . . . . .	
Rectifiers . . . . .		Quadracs . . . . .	601	Sockets . . . . .	(See Connectors)	16mm . . . . .	1744, 1766, 1770
Bridge . . . . .	490, 498, 505, 508, 511, 519, 524, 527, 530	SCRs . . . . .	489, 530, 598, 600, 602, 604	Socket Relays . . . . .	1632, 1902-1903	22mm . . . . .	1767, 1770
Fast Recovery . . . . .	498, 503-507, 515, 518-519, 521, 524, 529-530	Sidacs . . . . .	598-600, 602	Software . . . . .	45, 47, 50, 61, 201, 207, 222-224, 228-229, 231, 242-243, 247, 261, 283, 2230	Anti-Vandal . . . . .	1742-1744, 1754-1755, 1769-1770
General Purpose . . . . .	489, 504, 508, 518, 520, 524	Triacs . . . . .	598, 600-604	Single Board Computers . . . . .	58-62	Boot Seals . . . . .	1741, 1829
Glass Passivated . . . . .	496, 519, 524	Unijunction . . . . .	602	Sirens . . . . .	1951, 1956	Emergency Stop . . . . .	1742-1743, 1766-1767
Hyperfast Recovery . . . . .	505, 529	Timers . . . . .	50, 59, 257, 305, 318, 348, 350, 365, 373, 440, 1928-1929	Sleeving . . . . .	1179, 1181-1184	Environmentally Sealed . . . . .	1742-1743, 1760
Schottky Barrier . . . . .	487, 489, 491, 496-497, 499, 503, 506-508, 511, 519-522, 525-529	Touch Screen Controller . . . . .	64, 66-67, 204, 331, 363	Smart Card Readers . . . . .	349, 361, 371, 1472, 1474, 1486	Foot . . . . .	1756
SCRs . . . . .	489, 530	Transceivers . . . . .	10-20, 24, 27-28, 30, 53, 193, 211, 288-289, 292-294, 298, 300, 303-304, 308, 310, 314-317, 321, 328-330, 332-338, 346-349, 352, 354, 361, 364, 378, 381-385	Sockets . . . . .	(See Connectors)	Hermetically Sealed . . . . .	1741
Silicon . . . . .	506-507, 524, 602	Transient Voltage Suppressors . . . . .	492, 499, 509, 520, 605-610, 613-618, 620-624, 626-628, 631-633, 637	Socket Relays . . . . .	1632, 1902-1903	Illuminated . . . . .	1742-1748, 1751-1758, 1761-1769, 1771-1773
Small Signal . . . . .	489, 522	Transistors . . . . .		Software . . . . .	45, 47, 50, 61, 201, 207, 222-224, 228-229, 231, 242-243, 247, 261, 283, 2230	Key . . . . .	1743, 1750
Standard . . . . .	496, 499, 506, 511, 515, 529	Arrays . . . . .	387, 446, 459, 538, 547	Solder Products . . . . .		Non-Illuminated . . . . .	1744, 1746-1747, 1753, 1761, 1764
Super Barrier . . . . .	494	Avalanche . . . . .	541	Solder Braids . . . . .	2259, 2263, 2274	Power . . . . .	1748, 1751
Super Fast Recovery . . . . .	498, 507, 519	Bipolar . . . . .	393, 534-535, 538-541, 548-558, 579, 581, 583	Desolder Braids . . . . .	2259, 2263, 2274	Programmable . . . . .	1765
Switching . . . . .	487-488, 490, 508, 511, 520	Darlington . . . . .	176, 187, 459, 538, 541-542, 546-548, 551	Desoldering Tool . . . . .	2252, 2255-2256, 2263, 2274	Security . . . . .	1742
Ultra Fast Recovery . . . . .	498, 504, 515, 521, 524-525, 529	Digital . . . . .	176, 546, 548, 556	Flux . . . . .	2256, 2258	Snap Action . . . . .	1743, 1749-1750, 1756, 1759, 1771
Regulators . . . . .		Dual . . . . .	178, 187, 189-190, 538-541, 546, 549, 559, 576-579, 582, 589, 591-593, 596	Fume Absorbers . . . . .	2253, 2255	Surface Mount . . . . .	1746, 1749
Adjustable . . . . .	421, 424-425, 443-444, 462-463, 478	GaAs . . . . .	393, 535	Heat Guns . . . . .	1185	Surface Wheel . . . . .	1824
Buck . . . . .	445, 485	General Purpose . . . . .	176, 459, 542-547, 549-553, 555-556, 559	Iron . . . . .	2249-2254, 2267	Reed . . . . .	1808, 2004
Fixed . . . . .	421, 424-425, 443-444, 453-456, 463-465, 470-476, 478	High Voltage . . . . .	190, 459, 540-541	Lubricant . . . . .	2254, 2263, 2274	Rocker . . . . .	
Linear . . . . .	357, 368, 438, 441, 443-444	IGBTs . . . . .	190, 500, 543, 569, 579, 581, 583	Paste . . . . .	2256, 2258	Analog . . . . .	1790
Low Dropout . . . . .	357, 402, 421, 423, 425, 437-438, 441, 444, 453-455, 462-465, 470-471, 475, 485	JFETs . . . . .	537, 542-543, 554, 571	Pen . . . . .	2258	Appliance Style . . . . .	1788, 1792
Low Voltage . . . . .	365, 402, 421, 423-425, 428, 434, 453-456, 462-465, 485	Low Saturation . . . . .	539-540, 549, 554	Solder . . . . .	2257-2258	Boot Seals . . . . .	1829
Negative . . . . .	424, 443, 462-463	Power . . . . .	190, 446, 459, 500, 535, 537, 539, 542, 547, 553-559	Solder Pots . . . . .	2255	Dual Color . . . . .	1788, 1792, 1795
Positive . . . . .	357, 421, 424-425, 443-444, 453-455, 470-476, 462-465	Pre Biased . . . . .	538, 550, 559	Solder Systems . . . . .	2248-2253, 2256	Double Pole . . . . .	1789
Precision . . . . .	453-454	Quad . . . . .	546	Soldering Tools . . . . .	2248-2256	Illuminated . . . . .	1765, 1790-1793, 1795-1798
Switching . . . . .	357, 365, 368, 428, 434-437, 442, 445, 447, 455-456, 461, 468-470, 485, 611	RF . . . . .	534-535, 546, 548-549, 558	Tips . . . . .	2248-2254, 2256	Miniature . . . . .	1790-1792, 1794, 1796-1797
Voltage . . . . .	402, 421, 423-425, 428, 434, 438, 442-443, 445, 453-456, 461-465, 468-476, 485	Small Signal . . . . .	534-537, 543-546, 558, 569	Tip Tinner . . . . .	2256	OLED . . . . .	1765
Relays . . . . .	(See "R" Section)	Switching . . . . .	542, 549, 554, 559	Transmitters . . . . .	19-20, 28, 30, 37, 352	Power . . . . .	1788, 1790-1791, 1796-1797, 1938
Reset ICs . . . . .	313, 346-347, 365-366, 386, 429-430, 432-434, 461	Transmitters . . . . .	19-20, 28, 30, 37, 352	Triacs . . . . .	178, 190, 598, 600-604	Sealed . . . . .	1788, 1790, 1794, 1797-1798
Resistor Dividers . . . . .	325	UARTs . . . . .	29, 45-46, 50, 240, 315-316, 332, 344, 349	USB Host Controllers . . . . .	45, 355	Single Pole . . . . .	1789-1790
RF ICs . . . . .	11, 13, 20, 28, 32-33, 36, 39, 349, 360, 393-396, 428	Video ICs . . . . .	312, 318, 353, 385, 394-395, 399	Video Detectors . . . . .	402, 452-453, 462	Snap-In . . . . .	1789, 1795, 1797
RF Synthesizers . . . . .	360	Voltage Detectors . . . . .	400, 421, 426, 438-440, 442, 447, 461-462, 478-480	Voltage References . . . . .	400, 421, 426, 438-440, 442, 447, 461-462, 478-480	Rotary . . . . .	
RFID . . . . .	14, 23, 31, 33, 52, 234	Voltage Translators . . . . .	354	Wireless Modules . . . . .	6, 8, 10-20, 23-29, 31, 36, 39-43, 47-49, 53, 56-57, 203, 246, 250, 488-489, 491-492, 494-495, 501-502, 511, 513-514, 520, 523, 531-533, 626	Adjustable . . . . .	1818, 1820
Ring Generators . . . . .	365	Zener Diodes . . . . .	488-489, 491-492, 494-495, 501-502, 511, 513-514, 520, 523, 531-533, 626	Wireless Modules . . . . .	6, 8, 10-20, 23-29, 31, 36, 39-43, 47-49, 53, 56-57, 203, 246, 250, 488-489, 491-492, 494-495, 501-502, 511, 513-514, 520, 523, 531-533, 626	Decimal Code . . . . .	1816, 1822-1823
SCRs . . . . .	489, 530, 598, 604	Sensors . . . . .		Accelerometers . . . . .	52, 319-320, 362, 2018	DIP . . . . .	1810, 1816, 1821-1823
Single Board Computers . . . . .	59-62	Accesories . . . . .	1991, 1997	Amplifier Light . . . . .	174, 184-185, 191-192, 357, 359	Enclosed . . . . .	1814, 1817-1818, 1820
Software . . . . .	45, 47, 50, 61, 201, 207, 222-224, 228-229, 231, 242-243, 247, 261, 283	Clinometers . . . . .	2018	Color . . . . .	52, 181, 185	Hexadecimal Coded . . . . .	1822-1823
						Non-Shorting . . . . .	1816, 1818-1820

# Product Index

Tilt ..... 1785, 2004-2005  
 Toggle  
 Boot Seals ..... 1774-1775, 1777, 1787, 1829  
 Environmentally Sealed ..... 1786  
 Illuminated ..... 1784  
 Miniature ..... 1774-1777, 1779, 1781-1786  
 Panel Mount ..... 1777, 1779-1785  
 PC Mount ..... 1784-1785  
 Power ..... 1775, 1778, 1787  
 Surface Mount ..... 1776, 1781

## T

**Tachometers** ..... 1927  
**Tape**

Anti-Static ..... 2265, 2269-2270  
 Circuit Plating ..... 2264-2265  
 Color Coding ..... 2264  
 Double Coated Film ..... 2264  
 Duct ..... 2264  
 Foam ..... 2264  
 Glass Cloth ..... 2264  
 Labeling ..... 1169, 1178  
 Low Static ..... 2265, 2269  
 Mastic ..... 2264  
 Plating ..... 2264-2265  
 Shielding ..... 2265, 2270  
 Silicone Rubber Electrical ..... 2264  
 Splicing ..... 2264  
 VHB ..... 2265  
 Vinyl Electrical ..... 1649, 2264

**Terminal Blocks** ..... (See Connectors)  
**Terminals** ..... (See Connectors)

### Test Equipment

**Accessories**  
 Alligator Clips and Leads ..... 2226, 2236-2237  
 Banana Plugs and Jacks ..... 2236, 2238  
 Battery Clips ..... 2236  
 BNC ..... 2237  
 Cases ..... 2218, 2221, 2223, 2226-2227, 2229  
 Contact ..... 2234-2235  
 Grabbers ..... 2237-2240  
 Patch Cords ..... 2233, 2238-2239  
 Telecom Products ..... 2237, 2239  
 Test Clips ..... 2226, 2233, 2236-2241  
 Test Lead Holder ..... 2239  
 Test Leads ..... 2218, 2226, 2236-2240

### Analyzers and Testers

Audio ..... 2222  
 Battery Capacity ..... 2198  
 Component ..... 2219, 2225-2226  
 Continuity ..... 2226  
 Current ..... 2226, 2231  
 Electrical ..... 2222, 2232  
 Multitester ..... 2227, 2229  
 Voltage ..... 2224, 2226, 2231-2232

### Decade Boxes

Erasers, EPROM ..... 258-259  
 Generators ..... 2222-2223, 2232  
 Kits and Sets ..... 223, 2228, 2239-2240, 2267

### Meters

Capacitance ..... 2219, 2225-2226  
 Clamp ..... 2218, 2224, 2226-2228  
 LCR/ESR ..... 2218-2219, 2225  
 MegOhm ..... 2227  
 Multi

Accessories ..... 2226-2229  
 Bench ..... 2218-2219, 2225, 2227, 2232  
 Digital ..... 2218-2219, 2224, 2226-2229  
 Graphical ..... 2229  
 Panel ..... 2213-2217  
 Process ..... 2215, 2229  
 Scope ..... 2225, 2229  
 Oscilloscopes ..... 2222, 2225, 2229-2230, 2232  
 Probes ..... 2224, 2226, 2230-2235, 2237, 2240, 2267  
 Programmers, Universal ..... 258-259  
 Spring Contacts ..... 2234-2235

### Thermal Pads

**Thermal Protection** 622, 643-650, 1936-1940, 2133  
**Thermistors** ..... 643-650, 1996  
**Thermoelectric Modules** ..... 2083-2084  
**Thermostats** ..... 1996, 2006, 2023, 2094  
**Thyristors** ..... 489, 530, 598-603

**Timers** ..... 50, 59, 257, 305, 318, 348, 350, 365, 373, 440, 1927-1929, 2190

### Tools

Brushes ..... 2261, 2272  
 Cable Stripper ..... 1214, 1295  
 Cable Tie ..... 1171-1172, 1176, 1567  
 Clamps ..... 1176, 2254  
 Cleaners ..... 2260-2263, 2268, 2271-2272  
 Cleanroom Products ..... 2263  
 Coax Cable Stripper ..... 1214, 1295  
 Contact Extraction  
 7.50mm ..... 1625  
 CPC ..... 1418-1419, 2242  
 D-Sub ..... 1386, 1388, 1401  
 DIN ..... 1492  
 KK® Series ..... 1597, 1599  
 MATE-N-LOK ..... 1543, 1545, 1619, 1624, 2242  
 MICRO-FIT 3.0™ ..... 1619

MINI-FIT JR.™/SR.™ ..... 1624  
 MR ..... 1548  
 MTE Series ..... 1533  
 Pin and Socket ..... 1462, 1464-1465, 1543, 1545, 1548, 1589, 1591, 1619, 1624, 2242-2243  
 SL™ ..... 1592

### Contact Insertion

CPC ..... 1419, 2242  
 D-Sub ..... 1386, 1388  
 DIN ..... 1492  
 KK® Series ..... 1597  
 MATE-N-LOK ..... 1545, 2242  
 MR ..... 1548  
 Pin and Socket ..... 2243  
 SL™ ..... 1592

### Crimpers

7.50mm ..... 1625  
 Coaxial ..... 1294, 1312, 1320, 1462, 1464, 1491, 1499, 1567  
 CPC ..... 1418-1420, 2242  
 D-Sub ..... 1386, 1388, 1405, 1408  
 DIN ..... 1301, 1491-1492  
 Ferrule ..... 1665-1666  
 IDC ..... 1408, 1597, 1648  
 KK® Series ..... 1597, 1599  
 MATE-N-LOK ..... 1542-1543, 1545, 1619, 1622, 1624, 2242

### MICRO-FIT

Mini and Maxi PV ..... 1300-1301  
 MINI-FIT JR./SR. ..... 1622, 1624  
 Modular ..... 1328, 1332, 1582, 2242  
 MR ..... 1548  
 MTA Series ..... 2242  
 MTE Series ..... 1533  
 Pin and Socket ..... 1462, 1464-1465, 1542-1543, 1545, 1548-1549, 1589-1591, 1619, 1622, 1624, 2242-2243  
 Pliers ..... 1666  
 RF ..... 1294-1295, 1301, 1304, 1312, 1320, 1567  
 SL™ ..... 1592  
 Solderless Terminal ..... 1648, 1650-1651, 1658, 1662, 1664

### Cutters

Dies ..... 1295, 1304, 1328, 1369, 1405, 1588, 2242, 2246  
 Drill Bits ..... 2246  
 Heat Guns ..... 1185  
 IC Extraction ..... 231, 1637  
 Keying ..... 1523, 1534, 1538, 1548  
 Knives/Blades ..... 1470  
 Lead Forming ..... 2246  
 Pliers ..... 1666  
 Presses ..... 2247  
 Probes ..... 222, 2256  
 Punches ..... 2246  
 Seizer Clamps ..... 2254  
 Semi-Rigid Assembly ..... 1320  
 Sets ..... 2246  
 Solder Pots ..... 2255

### Solder/Desolder

Accessories/Aids ..... 1185, 1664, 2249-2251, 2253-2256, 2281  
 Fume Absorbers ..... 2253, 2255  
 Guns ..... 1185, 2253  
 Irons ..... 2249-2254  
 Pump ..... 2255  
 Stations ..... 2248-2253, 2256  
 Tips ..... 2248-2254, 2256  
 Staking ..... 1978-1979  
 Strain Relief ..... 1191, 1376, 1538  
 Swabs ..... 2256, 2261, 2263, 2274  
 Termination ..... 1191  
 Torch ..... 1185  
 Trim Trio™ ..... 1462, 1464  
 Trimmer Adjustment ..... 794, 796  
 Tweezers ..... 2244, 2250, 2256  
 Vacuum Cleaner ..... 2268  
 Vises ..... 2247  
 Wipes ..... 2256, 2260-2263, 2271-2272  
 Wire Strippers ..... 1214, 1666, 2245  
 Wire Wrapping ..... 2245  
 Wiring Duct ..... 1180

### Transducers

Electromagnetic ..... 1950  
 Electromechanical ..... 1952  
 Magnetic ..... 1946  
 Piezo ..... 1950, 1952  
 Speaker ..... 1941, 1946, 1950, 1956  
 Surface Mount ..... 2017  
 Ultrasonic ..... 1946

### Transformers

Audio ..... 2096-2097, 2100  
 Autotransformers ..... 2093, 2099  
 Chassis Mount ..... 2087, 2089, 2092, 2094, 2098-2100  
 Cold Cathode ..... 1104  
 Converter ..... 2091  
 Current Sense ..... 1150, 2090-2091, 2100  
 Encapsulated ..... 2091, 2096  
 Filament ..... 2087, 2089  
 Fluorescent ..... 1104  
 Heavy Duty ..... 2092-2094

International ..... 2087-2089, 2092-2095, 2098-2100  
 Isolation ..... 1112, 2091, 2093, 2097, 2099, 2192  
 Low Voltage ..... 2087, 2089  
 PC Mount ..... 2087, 2091-2093, 2095-2096, 2098-2101  
 Plug-In ..... 2092-2093, 2097, 2099-2100  
 Power ..... 1104, 1109, 2087-2101, 2191-2192  
 Pulse ..... 2091  
 Rectifier ..... 2087, 2089, 2100  
 Signal ..... 2090  
 Split Bobbin ..... 2087, 2093, 2098  
 Step-Up/Step-Down ..... 2093, 2099  
 Surface Mount ..... 1109, 1112, 1150, 2090-2091, 2100  
 Telecommunications ..... 2096, 2100  
 Telephone Coupling ..... 2100  
 Toroidal ..... 2088, 2091, 2097  
 Variable ..... 2092

**Transistors** ..... (See Semiconductors)  
**Tubing** ..... (See Wire and Cable)  
**TVS** ..... (See Semiconductors)

## U

**UPS Systems** ..... 2159, 2190-2192  
**USB**

Connectors ..... (See Connectors)  
 Devices ..... 14, 20, 26, 45-46, 57, 211, 214, 223, 237, 240, 361, 611, 619, 624, 2232  
 Host Controllers ..... 45, 355  
 Interface ..... 14, 20, 26, 43-46, 52, 236-237, 240-241, 253, 290, 292-294, 310, 316, 345, 355-356, 361, 364, 379, 385, 457, 611, 624, 1238, 1344, 1348, 2224

## V

**Vacuum Cleaner Electronics** ..... 2268  
**Varistors** ..... 631-640, 658  
**Vibration Sensors** ..... 2005, 2018  
**Video Amplifiers** ..... 312, 394, 1286  
**Voltage**  
 Detectors ..... 174, 402, 452-453, 462, 509, 1265, 2224  
 Reference ..... (See Semiconductors)  
 Regulators ..... (See Semiconductors)  
 Suppressors ..... 492, 499, 509, 520, 597, 605-610, 613-618, 620, 622-624, 626-628, 631-633, 637, 641-642, 658, 960, 2191, 2232

## W

**Web Server** ..... 47-48, 50  
**Wi-Fi** ..... 17-18, 21-22, 26-27, 29, 36, 39-40, 42, 47-48, 56-57, 1223  
**WiPort™** ..... 47-48

### Wire and Cable

Alarm ..... 1220  
 Analog ..... 1215, 1218  
 Audio ..... 45, 1200, 1214, 1216-1218, 1220-1221  
 Braided Sleeving ..... 1179, 1181  
 Broadcast ..... 1217, 1270, 1287  
 Bus Bar ..... 1209, 1212  
 Cable Assemblies  
 AC Power ..... 1239-1243, 2179-2181  
 Audio ..... 45, 1218, 1229, 1235, 1287, 1346  
 Auto ..... 1236  
 BNC ..... 1229-1231, 1236-1237, 1287, 2237  
 Cat 5e ..... 1218, 1229, 1327, 1366-1367, 1369-1370, 1372-1373  
 Cat 6 ..... 1229, 1339, 1363  
 Computer ..... 1227, 1237  
 Controller Board ..... 45-46  
 DC Power ..... 1236, 1376  
 D-Sub ..... 46, 1226, 1232, 1345-1346, 1382  
 DIN ..... 1237  
 DVI ..... 1228, 1238  
 Fiber Optic ..... 1339  
 Flat Ribbon ..... 1227, 1628-1629  
 HDMI ..... 1218, 1228, 1238, 1339, 1346, 1349  
 High Speed ..... 1226, 1232, 1354, 1358, 1586  
 IEEE 1394 ..... 1238, 1339, 1341, 1373  
 M8 ..... 1459  
 M12 ..... 1370, 1373, 1458-1459  
 Mini-D Ribbon ..... 1226  
 Mini-USB ..... 46, 1340, 1342, 1348, 1372  
 Modular ..... 45-46, 1327, 1339, 1349, 1363, 1367, 1369, 1372-1373  
 Molded ..... 1227, 1229, 1237, 1376, 2237  
 Patch Cord ..... 1229, 1235, 1327, 1366, 1370, 1373-1374, 2233, 2238-2239  
 PCI Express ..... 1358  
 Phone ..... 1235  
 Phono (RCA) ..... 1235  
 Power Cords ..... 1239-1243, 2071, 2181  
 RF ..... 1230-1231, 1233-1234, 1237, 1287, 1308, 1320, 2237  
 S-VHS ..... 1237  
 SCSI ..... 1341, 1358  
 Serial ATA (SATA) ..... 1358-1359  
 Serial Attached SCSI (SAS) ..... 1358-1359  
 Shrink D Ribbon (SDR) ..... 1226, 1341

USB ..... 29, 45-46, 1228-1229, 1232, 1238, 1327, 1335, 1340, 1342, 1348-1349, 1366, 1369, 1372-1373, 2179  
 Video ..... 1218, 1237  
 VHDCI ..... 1345

Cable Clamps/Clips ..... 133, 1171, 1173, 1176-1177, 1231, 1240, 1389, 1432-1433, 1463, 1567, 1964  
 Cable Glands ..... 1510, 1964-1965, 2046  
 Cable Mounting ..... 101, 1170-1173, 1176-1177, 1179, 1245, 1278, 1342, 1361, 1367, 1380, 1444, 1446-1448, 1456, 1491, 1554, 1567, 2233  
 Cable Testers ..... 2270  
 Cable Tie Tools ..... 1171-1172, 1176, 1567  
 Cable Ties ..... 1169-1172, 1174-1176, 1191, 1567  
 Camera ..... 1214, 1220, 1226  
 Coaxial ..... 1200, 1213-1215  
 Communication and Control ..... 65, 133, 1182-1183, 1201-1206, 1216-1219, 1221, 1746, 2270  
 Computer ..... 1213, 1219, 1222, 1224-1225, 1227, 1237, 1361

Data ..... 28, 32, 44, 47-48, 1197, 1202, 1205, 1223, 1225-1226

Duct ..... 1180  
 Fiber Optics ..... 162, 1339, 1368  
 Flat IDC Ribbon Cable ..... 1062, 1194-1199, 1212, 1227, 1408, 1516, 1555, 1587, 1628-1629, 1631-1632  
 Heat Guns ..... 1185  
 Heat Shrink End Caps ..... 1189  
 Heat Shrink Tubing ..... 1181, 1184-1191, 1193  
 Heat Shrink Woven Fabric ..... 1181, 1191  
 Hook and Loop Fasteners ..... 1169, 1176  
 Hook-Up Wire ..... 1169, 1207-1211  
 Hook-Up Wire Kits ..... 1209, 1211  
 IBM Type ..... 1224  
 Instrumentation ..... 1216-1219, 1221  
 Jumper Wire ..... 1240, 1243, 1570, 2275  
 Lacing Cord and Tape ..... 1199  
 Local Area Network ..... 1200, 1223-1224, 1229

Magnet ..... 1212  
 Microphone ..... 1200  
 Microwave ..... 1213  
 Modular Telephone ..... 1197, 1199  
 Multi-Conductor  
 Shielded ..... 1197, 1200-1205, 1216, 1218-1225  
 Unshielded ..... 1200-1201, 1204, 1206, 1217-1221, 1225  
 Multi-Pair  
 Shielded ..... 1197-1198, 1201, 1203-1205, 1216-1217, 1223-1225, 1231, 1327  
 Unshielded ..... 1201, 1217, 1225, 1327  
 Plenum ..... 1203, 1218, 1225  
 Portable Cordage ..... 1223  
 Power Cord ..... 106, 133, 1221, 1229, 1236-1237, 1239-1243, 1370, 1373, 1376, 2071, 2181  
 Security ..... 1220  
 Shielding and Bonding ..... 1064, 1187, 1212, 1342, 1371, 1426-1427, 1567, 2270  
 Sleeves ..... 1192, 2245  
 Sleeving ..... 1179, 1181-1184  
 Speaker ..... 1216-1217  
 Splices ..... 1191-1192, 1426, 1648  
 SVHS ..... 1215, 1237  
 Telephone ..... 1197, 1199, 1225, 1335  
 Test Lead ..... 1199, 2239  
 Test Prod ..... 1211  
 Tubing

Braid Tubing ..... 1179, 1181, 1184  
 Corrugated Loom ..... 1179  
 CPC/FLEXA ..... 1368, 1423  
 Fiberglass ..... 1184, 1208  
 Grommet ..... 1179  
 Heat Shrink ..... 1181, 1184-1193  
 Heavy Wall ..... 1185  
 Spiral Wrap ..... 1179, 1184  
 Video ..... 1200, 1214-1216, 1218, 1237  
 Wire Markers ..... 1169, 1172, 1178, 1191  
 Wire Pulling Lubricant ..... 1169  
 Wire Wrapping Wire ..... 2245  
 Wiring Duct ..... 1180

**Wireless**  
 Radio Modules ..... 5, 8, 10, 12-13, 19, 22, 25-26, 28, 36, 40-41, 203  
 RF Devices ..... 8, 10-20, 22, 24, 27-28, 32-34, 36, 39, 47-48, 53, 195, 250  
 Eval Boards ..... 8-13, 15, 17-20, 22-23, 26-27, 30-32, 34-35, 40, 43, 47, 49, 53, 56-57, 234, 250  
**Workbench** ..... 222

## X

**X-Port™** ..... 47  
**XTRA-GUARD** ..... 1204-1206

## Z

**ZigBee™** ..... 11-15, 17-18, 21, 23, 32, 243, 396, 1047