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**QUAD IN-LINE (QUIP) FAMILY**

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**RECTANGULAR CHIP CARRIER**

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**RFID**

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SSOP No Lead Pins: 6, 8, 10, 20, 24, 28, 36, 48	MO-209

**SIMM/DIMM FAMILY**

2.54 mm (.100") Centers 30-Pin SIMM Pins: 30	MO-064
1.27 mm (.050") Pitch SIMM Pins: 72	MO-116
1.27 mm (.050") Pitch DIMM Pins: 72, 84, 88	MO-160
1.27 mm (.050") Pitch DIMM Pins: 100, 168	MO-161
1.27 mm (.050") Pitch DIMM Pins: 128	MO-167
1.27 mm (.050) Pitch DIMM Pins: 112, 200	MO-172

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**SIMM/DIMM FAMILY (cont'd)**

0.65 mm Pitch SO-DIMM Pins: 200	MO-177
1 mm Pitch DIMM Pins: 278	MO-179
1.27 mm (.050) SDIMM Pins: 72	MO-185
0.8 mm SO DIMM Pins: 144	MO-190
1.27 mm Pitch DIMM Pins: 160	MO-191
1.27 mm Pitch DDR DIMM Pins: 184	MO-206
0.5 mm Pitch Micro-DIMM Pins: 144	MO-214
1.00 mm Pitch SDRAM DIMM Pins: 210	MO-215
.60 mm Pitch DDR SO-DIMM Pins: 200	MO-224
1.00 mm Pitch DDR SDRAM Pins: 232	MO-227
1.00mm DDRII SDRAM Pins: 240	MO-237
DDR2 Mini DIMM 0.60 Lead Centers Pins: 244	MO-244
FB DIMM 1.00mm Pins: 240	MO-256
DDR Mini DIMM 0.60 Lead Centers Pins: 200	MO-258
DDR DDR2 Micro DIMM Mezzanine Pins: 214	MO-260
DDR3 SO DIMM 0.60 Lead Centers Pins: 204	MO-268
DDR3 SDRAM DIMM 1.00mm Contact Centers Pins: 240	MO-269
DDR1/DDR2 16b/32b SO DIMM 0.8 Lead Centers	MO-274
DDR2 SDRAM DIMM Flex-Based, 1.00mm Pins: 240	MO-281
FB DIMM Family, Flex Based, 1.00 mm Contact Centers Pins: 240	MO-282



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**SIMM/DIMM FAMILY (cont'd)**

DDR3 SDRAM DIMM Flex-Based, 1.00mm Contact Centers Pins: 8	MO-290
284 Pin DDR4 DIMM 0.85mm Pitch Pins: 284	MO-309
256 Pin DDR4 SODIMM and GDDR5M Outline 0.50 mm Pitch Pins: 256	MO-310
288 Pin DDR4 Mini DIMM 0.50mm Pitch Pins: 288	MO-314
288 Pin DDR5 DIMM, 0.85 MM Pitch	MO-329
262 Pin SODIMM, 0.50 mm Pitch Package	MO-337

**SINGLE-IN-LINE (SIP) FAMILY**

2.54 mm (.100") Row Spacing Pins: 11	MO-035
3.81 mm (.150") Row Spacing Pins: 9	MO-045
2.54 mm (.100") Row Spacing Ceramic Pins: 11, 16	MO-055
2.54 mm (.100") Row Spacing Edge Clip Pins: 22, 24, 30, 40	MO-068
0.50 mm Lead Pitch Vertical Surface Mount	MO-141

**SMALL OUTLINE (SO) FAMILY**

5.3 mm (.200") Body Width Gull-wing Pins: 14, 16, 20	MO-046
8.54 mm (.330") Body Width Gull-wing Pins: 24, 28	MO-059
9.6 mm (.400") Body Width SOJ Pins: 28, 32, 36, 40, 44	MO-061
9.0 mm (.350") Body Width SOJ Pins: 22	MO-063
7.62 mm (.300") Body Width SOJ Pins: 24, 26	MO-065
7.62 mm (.300") Body Width SOJ Pins: 24, 25, 28, 32	MO-077
7.62 mm (.300") Body Width SOJ Pins: 14, 16, 18, 20, 24, 28	MO-088

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<b>FAMILY</b>	<b>REGISTRATION NO.</b>
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**SMALL OUTLINE (SO) FAMILY (cont'd)**

9.0 mm (.350") Body Width SOJ Pins: 26, 28	MO-091
TSOJ Pins: 22, 24, 28	MO-105
12 mm Body Width SO Gull-wing .8 mm Pitch Pins: 64	MO-117
SOJ 0.300" Body Width Pins: 24, 28, 32, 36	MO-119
SOJ 0.350" Body Width Pins: 24, 28, 32, 36	MO-120
SOJ 0.330" Body Width Pins: 24, 28, 32, 36	MO-121
SOJ 12mm Body Width 0.8 mm Pitch Pins: 64	MO-123
SOJ 12.7 mm Body Width 1.27 Pitch Pins: 32, 34, 36, 40, 70	MO-124
9.6 mm (.400") Body Width SO 50 mm Pitch Pins: 28, 32	MO-126
Plastic SO .8mm pitch Pins: 70	MO-174
SOP 12.6 mm Body Width Pins: 44, 48	MO-175
SO Gull Wing 13.30 mm Body Width Pins: 44, 56	MO-180
SOJ Metric 16 mm Body Width Pins: 40	MO-181
Metric Thin SO 16 mm Body Width Pins: 40, 62, 88, 100	MO-182
6 Lead Thin SO Pins: 6	MO-193
Plastic Thin Shrink SO Pins: 14, 16, 20, 24, 48, 56, 80, 100	MO-194
Plastic Leadless SO (SON) Pins: 28	MO-196
Plastic USON 0.5mm Pitch Pins: 40, 46	MO-197
LSOJ Pins: 28, 32, 36, 40, 42, 44, 50, 54, 70	MO-199

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**SMALL OUTLINE (SO) FAMILY (cont'd)**

SOJ 2High/4High Pins: 32, 44	MO-200
Plastic SO Heat Slug 7.5 mm Body Width 1.0 mm Pitch	MO-226
Plastic SO Exposed Heat Sink Pins: 20, 30, 36	MO-230
Plastic USON Pins: 2, 3, 4	MO-236
P-WFDSO, P-UFDSON, P-XFDSO Pin: 6	MO-252
P-WFQFN, P-UFQFN, P-XFQFN Pins: 8, 10	MO-255
Exposed Pad Plastic 7.60mm Body Width Pins: 20, 24, 28, 36	MO-271
Plastic SO Wide Body SOIC 7.5 Body Width Pins: 32, 54	MO-286
Plastic Dual SO No Lead Pins: 6, 8	MO-287
Plastic Dual SO Flat Leaded Pins: 3, 5, 6	MO-293
Plastic Multi SO 17 Terminal, 1.20 mm Pitch	MO-332
Plastic Dual Small Outline Surface Terminal Wettable Flank	MO-340
Plastic Dual Small Outline Surface, 2 Terminal Wettable Flank Package	MO-343
Plastic Dual Small Outline Gull Wing Package, 1.10 mm Thick Pins: 14, 16	MO-345
Plastic Dual Small Outline, 1.00 MM Pitch 5.48 MM width Rectangular	MO-351
Plastic Multi Small Outline, 1.14 MM pitch 15.40 MM Body Width, Rectangular	MO-354

**SMALL OUTLINE TRANSISTOR FAMILY**

Low Profile Exposed Pad Plastic 3.90mm Body Width Pins: 10, 12, 14, 16	MO-272
5-pin SOT	MO-178
Shrink SOT Pins: 5, 6	MO-203

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**SMALL OUTLINE TRANSISTOR FAMILY**

Shrink SOT Pins: 5, 6, 8	MO-223
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**SSD ASSEMBLY**

Slim Lite	MO-297
mSATA	MO-300
Pins: 52	
Metal Enclosure SSD Devices, E1.S and M.2	MO-348

**TAPEPAK**

Molded Carrier Ring Family	MO-076
Pins: 192, 256, 312, 376, 440, 446, 248, 328, 408, 488, 568, 648, 408, 512, 608, 712, 808, 416, 552, 680, 816, 952, 1080	
Molded Carrier Ring Family	MO-109

**THIN SMALL OUTLINE (TSOP) FAMILY**

7.62 mm Body TSOP 2	MO-132
Pins: 20, 24, 24	
10.16 mm Body TSOP 2	MO-133
Pins: 28, 32, 44	
12.70 mm Body TSOP 2	MO-135
Pins: 32, 34, 50, 54	
TSOP 1	MO-142
Pins: 24, 32, 40, 48, 56	
TSOP2 16 mm Body Width	MO-182
TSOP 1 .55 Pitch	MO-183
Pins: 28	
TSSOP	MO-187
Pins: 8	
TSOP II 2 High/4 High	MO-201
Pins: 32	
TSOP II 2 High	MO-238
Pins: 54, 66	
Thin SO 8.89 Body	MO-249
Pins: 28, 32, 36, 40, 44, 52, 56, 64, 68	

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<b>FAMILY</b>	<b>REGISTRATION NO.</b>
Very Very Thin SO Package Type 1 Pins: 48	MO-259
<b>UFS CARD</b>	
12 Pin UFS Card 0.91 MM Pitch	MO-320
<b>ZIG-ZAG (ZIP) FAMILY</b>	
2.54 mm (.100") Row Spacing Pins: 16	MO-054
1.27 mm (.050") Row Spacing Pins: 19, 20, 24, 28, 40	MO-072
2.54 mm (.100") Row Spacing Pins: 23, 26	MO-080
Ceramic 2.54mm (.050) Row Spacing Pins: 20, 24, 28	MO-176
R-PZIP .40 mm Pitch Pins: 64	MO-202
PZIP .40 mm Pitch Pins: 64	MO-213