

**Alternate Assembly Site of Select Isolator Products in
8L/16L SOIC_N, 16L/20L SOIC_W and 16L/20L SOIC_IC at ASE Chungli**

**Automotive Qualification Results Summary
of 8L/16L SOIC_N Package at ASE Chungli**

| QUALIFICATION RESULT | | | |
|--|----------------------------|--------------------|---------------|
| TEST | SPECIFICATION | SAMPLE SIZE | RESULT |
| Temperature Cycle (TC)* | JEDEC <i>JESD22-A104</i> | 3 x 77 | PASS |
| Highly Accelerated Stress Test (HAST)* | JEDEC <i>JESD22-A110</i> | 3 x 77 | PASS |
| Autoclave (AC)* | JEDEC <i>JESD22-A102</i> | 3 x 77 | PASS |
| Solder Heat Resistance (SHR)* | JEDEC/IPC <i>J-STD-020</i> | 3 x 11 | PASS |
| Solderability | JEDEC <i>JESD22-B102</i> | 3 x 5 | PASS |
| High Temperature Storage (HTS) | JEDEC <i>JESD22-A103</i> | 1 x 77 | PASS |

*These samples were subjected to preconditioning (per J-STD-020 Level 1) prior to the start of the stress test. Level 1 preconditioning consists of the following: Bake: 24 hrs @ 125°C, Unbiased Soak: 168 hrs @ 85°C, 85%RH, Reflow: 3 passes through an oven with a peak temperature of 260°C. TC samples were subjected to wire-pull test after 500 cycles with results within specification limits

Material Set Change:

| Package Material Set | | Carsem | ASE Chungli |
|----------------------|---------------|------------------------------|-----------------------------|
| SOIC_N | Die Attach | Ablestik 84-1LMISR4 | Hitachi EN4900GC |
| SOIC_W | Mold Compound | Sumitomo 6600H or G600C | Sumitomo G700LY |
| SOIC_IC | Wire | 1.0mil and 1.3 mil Gold Wire | 1.0mil and 1.3mil Gold Wire |

| Package Material Set | | Carsem | ASE Chungli |
|----------------------|---------------|------------------------------|-----------------------------|
| SOIC_N | Die Attach | Ablestik 84-3J | Ablestik 2025D |
| SOIC_W | Mold Compound | Sumitomo 6600H or G600C | Sumitomo G700LY |
| SOIC_IC | Wire | 1.0mil and 1.3 mil Gold Wire | 1.0mil and 1.3mil Gold Wire |

**Alternate Assembly Site of Select Isolator Products in
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**8L/16L SOIC_N at ASE Chungli
Qualification Results Summary**

| QUALIFICATION RESULT | | | |
|---|----------------------------|------------------------|---------------|
| TEST | SPECIFICATION | SAMPLE SIZE | RESULT |
| Temperature Cycle (TC)* | JEDEC <i>JESD22-A104</i> | 3 x 77 | PASS |
| Highly Accelerated Stress Test (HAST)* | JEDEC <i>JESD22-A110</i> | 3 x 77 | PASS |
| Autoclave (AC)* | JEDEC <i>JESD22-A102</i> | 3 x 77 | PASS |
| Solder Heat Resistance (SHR)* | JEDEC/IPC <i>J-STD-020</i> | 3 x 11 | PASS |
| High Temperature Storage (HTS) | JEDEC <i>JESD22-A103</i> | 1 x 77 | PASS |

*Preconditioned per JEDEC/IPC J-STD-020

**Alternate Assembly Site of Select Isolator Products in
8L/16L SOIC_N, 16L/20L SOIC_W and 16L/20L SOIC_IC at ASE Chungli**

**16L/20L SOIC_W at ASE Chungli
Qualification Results Summary**

| QUALIFICATION RESULT | | | |
|---|----------------------------|------------------------|---------------|
| TEST | SPECIFICATION | SAMPLE SIZE | RESULT |
| Temperature Cycle (TC)* | JEDEC <i>JESD22-A104</i> | 3 x 77 | PASS |
| Highly Accelerated Stress Test (HAST)* | JEDEC <i>JESD22-A110</i> | 3 x 77 | PASS |
| Autoclave (AC)* | JEDEC <i>JESD22-A102</i> | 3 x 77 | PASS |
| Solder Heat Resistance (SHR)* | JEDEC/IPC <i>J-STD-020</i> | 3 x 11 | PASS |
| High Temperature Storage (HTS) | JEDEC <i>JESD22-A103</i> | 1 x 77 | PASS |

*Preconditioned per JEDEC/IPC J-STD-020

Alternate Assembly Site of Select Isolator Products in
8L/16L SOIC_N, 16L/20L SOIC_W and 16L/20L SOIC_IC at ASE Chungli

**16L/20L SOIC_IC at ASE Chungli
Qualification Results Summary**

| QUALIFICATION RESULT | | | |
|--|----------------------------|--------------------|---------------|
| TEST | SPECIFICATION | SAMPLE SIZE | RESULT |
| Temperature Cycle (TC)* | JEDEC <i>JESD22-A104</i> | 3 x 77 | PASS |
| Highly Accelerated Stress Test (HAST)* | JEDEC <i>JESD22-A110</i> | 3 x 77 | PASS |
| Solder Heat Resistance (SHR)* | JEDEC/IPC <i>J-STD-020</i> | 3 x 11 | PASS |
| High Temperature Storage (HTS) | JEDEC <i>JESD22-A103</i> | 1 x 77 | PASS |

*Preconditioned per JEDEC/IPC J-STD-020