

**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 16L SOIC_W 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 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: Bake: 24 hrs @ 125°C, Unbiased Soak: 192 hrs @ 30°C, 60%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

**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

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

**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

Material Set Change:

Package Material Set		Carsem	ASE <u>Chungli</u>
SOIC_N	Die Attach	<u>Ablestik 84-1LMISR4</u>	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 <u>Chungli</u>
SOIC_N	Die Attach	<u>Ablestik 84-3J</u>	<u>Ablestik 2025D</u>
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