

Addition of Alternate Assembly Site ASE Korea for Select LFCSP Products

**Qualification Results Summary for
AD7689 in Sawn LFCSP at AEK**

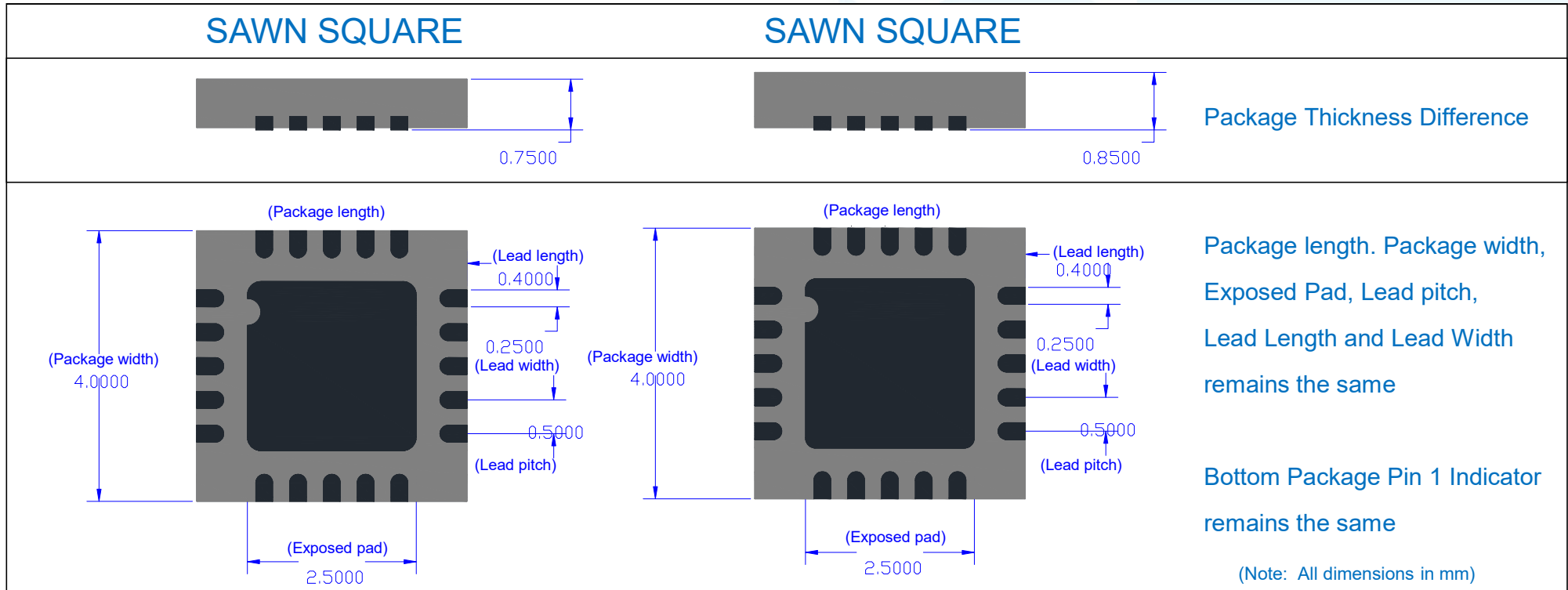
| TEST | SPECIFICATION | SAMPLE SIZE | RESULT |
|---|----------------------------|------------------------|----------------|
| Temperature Cycle (TC)* | JEDEC <i>JESD22-A104</i> | 3 x 77 | PASS |
| Solder Heat Resistance (SHR)* | JEDEC/IPC <i>J-STD-020</i> | 3 x 11 | PASS |
| Highly Accelerated Stress Test (HAST)* | JEDEC <i>JESD22-A110</i> | 3 x 77 | PASS |
| High Temperature Storage (HTS) | JEDEC <i>JESD22-A103</i> | 1 x 77 | PASS |
| Unbiased Highly Accelerated Stress Test (uHAST)* | JEDEC <i>JESD22-A118</i> | 3 x 77 | PASS |
| Electrostatic Discharge <i>Field-Induced Charge Device Model</i> | JEDEC <i>JS-002</i> | 3/voltage | PASS ±1250V |

* Preconditioned per JEDEC/IPC J-STD-020.

Bill of Materials Change Description

| MATERIALS | FROM | TO | REMARKS |
|----------------------|---------------|---------------|---------|
| Die Attach | Ablestik 8290 | Ablestik 8290 | Same |
| Wire type | Gold Wire | Gold Wire | Same |
| Mold Compound | Sumitomo G700 | Sumitomo G700 | Same |
| Lead Finish | Matte Sn | Matte Sn | Same |

Package Outline Drawing



| Body Size (mm) | Lead Count | Lead Pitch (mm) | 0.75mm Sawn POD | 0.85mm Sawn POD | Exposed Pad Size (mm) |
|----------------|------------|-----------------|-----------------|-----------------|-----------------------|
| 4x4 | 20 | 0.50 | CP-20-10 | CP-20-22 | 2.50 |

Package Outline Drawing (Dimensional Analysis)

| Body Size (mm) | Lead Count | Sawn Type 0.75mm LFCSP | | | | Sawn Type 0.85mm LFCSP | | | |
|----------------|------------|------------------------|---------------------|------------------|-----------------|------------------------|---------------------|------------------|-----------------|
| | | POD Spec | E-pad Size (mm sq.) | Lead Length (mm) | Lead Width (mm) | POD Spec | E-pad Size (mm sq.) | Lead Length (mm) | Lead Width (mm) |
| 4x4 | 20 | CP-20-10 | 2.50 (+/- 0.15) | 0.40 (+/- 0.10) | 0.25 (+/- 0.05) | CP-20-22 | 2.50 (+/- 0.15) | 0.40 (+/- 0.10) | 0.25 (+/- 0.05) |