



Integrated Device Technology, Inc.
2975 Stender Way, Santa Clara, CA - 95054

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT - PCN #: A-0309-04

PCN Type: Assembly Material Change

Data Sheet Change: None

Detail Of Change: A new mold compound material Sumitomo EME-G600 series has been qualified for PLCC package family. The successful completion of this qualification has improved IDT's support of current and future production needs for components that meet 260°C peak reflow temperature. There is no change in Moisture Sensitive Level (MSL). Products will be shipped at the existing MSL and each shipment is labeled with the correct MSL. Please refer to the label for MSL information.

Customers should not be adversely impacted by this change.

| Description | Material | |
|------------------------|----------------------|--------------------------|
| | Existing | Add |
| Mold compound material | Sumitomo 6300 series | Sumitomo EME-G600 series |

Please see attachment for affected part #s (Appendix - 1).

Samples are not built ahead of the change and are limited to selective devices. Please contact your local field sales representative for sample availability and additional information.



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ATTACHMENT - PCN #: A-0309-04

Qualification Plan #: P02-11-07

Test Vehicle: IDT7007L15J

Qualification Test Plan and Results:

| Test Description | Test Method | Test Results PL68 IDT7007L15J (SS / # of Fails) |
|--|----------------------------|--|
| * High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs) | JESD22-A110-B | 45/0 |
| * Temperature Cycling (-65 °C to 150 °C, 500 cycle) | JESD22-A104-B | 45/0 |
| * Auto Clave (121 °C, 2 ATM, 168 Hrs) | JESD22-A102-C | 45/0 |
| High Temperature Life Test (1000 Hrs @ 125 °C or equivalent) | JESD22-A108-B | 77/0 |
| High Temp Bake (1000 Hrs @ 150 °C) | JESD22-A103-B | 77/0 |
| Moisture Sensitivity Classification | J-STD-020B | 90/0 |
| Internal Visual Inspection | MIL-STD-883, M2010 | 5/0 |
| External Visual Inspection | JESD22-B101 | 25/0 |
| X-ray Examination | MIL-STD-883, M2015 | 45/0 |
| Bond Pull Test | MIL-STD-883, M2011 | 5/0 |
| Resistance to Solvents | JESD22-B107 | 3/0 |
| Solderability Test | JESD22-B102-C J-STD-002 | 5/0 |
| Bake & Ball Shear Strength | JESD22-B116 | 5/0 |
| Physical Dimensions | JESD22-B100-B | 5/0 |
| Die Shear Strength | MIL-STD-883, M2019 | 5/0 |

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113C.



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Appendix - 1

| | | | | |
|---------------|--------------|---------------|--------------|---------------|
| IDT5991A-2J | IDT7006L45J | IDT70121L35JI | IDT7016S35JI | IDT7025S35J |
| IDT5991A-5JI | IDT7006L55J | IDT70121L55J | IDT7024L15J | IDT7025S35JI |
| IDT5991A-7JI | IDT7006L55JI | IDT70121S25J | IDT7024L17J | IDT7025S45J |
| IDT5992A-2J | IDT7006S15J | IDT70121S25JI | IDT7024L20J | IDT7025S55J |
| IDT5992A-5JI | IDT7006S15JI | IDT70121S35J | IDT7024L20JI | IDT7025S55JI |
| IDT5992A-7JI | IDT7006S17J | IDT70121S35JI | IDT7024L25J | IDT7026L15J |
| IDT5V991A-2J | IDT7006S17JI | IDT70121S55J | IDT7024L30J | IDT7026L20J |
| IDT5V991A-5JI | IDT7006S20J | IDT70125L25J | IDT7024L35J | IDT7026L20JI |
| IDT5V991A-7JI | IDT7006S25J | IDT70125L35J | IDT7024L35JI | IDT7026L25J |
| IDT5V994JI | IDT7006S35J | IDT70125L35JI | IDT7024L45J | IDT7026L25JI |
| IDT7005L15J | IDT7006S45J | IDT70125L55J | IDT7024L55J | IDT7026L35J |
| IDT7005L15JI | IDT7006S55J | IDT70125S25J | IDT7024L55JI | IDT7026L55J |
| IDT7005L17J | IDT7006S55JI | IDT70125S35J | IDT7024S15J | IDT7026L55JI |
| IDT7005L17JI | IDT7007L15J | IDT70125S55J | IDT7024S15JI | IDT7026S15J |
| IDT7005L20J | IDT7007L17JI | IDT7014S12J | IDT7024S17J | IDT7026S20J |
| IDT7005L20JI | IDT7007L20J | IDT7014S15J | IDT7024S17JI | IDT7026S20JI |
| IDT7005L25J | IDT7007L20JI | IDT7014S20J | IDT7024S20J | IDT7026S25J |
| IDT7005L25JI | IDT7007L25J | IDT7014S20JI | IDT7024S20JI | IDT7026S25JI |
| IDT7005L35J | IDT7007L25JI | IDT7014S25J | IDT7024S25J | IDT7026S35J |
| IDT7005L35JI | IDT7007L35J | IDT7015L12J | IDT7024S25JI | IDT7026S55J |
| IDT7005L45J | IDT7007L55J | IDT7015L15J | IDT7024S30J | IDT7026S55JI |
| IDT7005L45JI | IDT7007S15J | IDT7015L17J | IDT7024S30JI | IDT70914S12J |
| IDT7005L55J | IDT7007S20J | IDT7015L20J | IDT7024S35J | IDT70914S15J |
| IDT7005L55JI | IDT7007S20JI | IDT7015L20JI | IDT7024S35JI | IDT70914S15JI |
| IDT7005S15J | IDT7007S25J | IDT7015L25J | IDT7024S45J | IDT70914S20J |
| IDT7005S15JI | IDT7007S35J | IDT7015L35J | IDT7024S55J | IDT70914S20JI |
| IDT7005S17J | IDT7007S35JI | IDT7015S12J | IDT7024S55JI | IDT70914S25J |
| IDT7005S17JI | IDT7007S55J | IDT7015S15J | IDT7025L15J | IDT70V05L15J |
| IDT7005S20J | IDT7007S55JI | IDT7015S17J | IDT7025L17J | IDT70V05L20J |
| IDT7005S25J | IDT7008L15J | IDT7015S20J | IDT7025L20J | IDT70V05L20JI |
| IDT7005S35J | IDT7008L20J | IDT7015S25J | IDT7025L20JI | IDT70V05L25J |
| IDT7005S35JI | IDT7008L20JI | IDT7015S35J | IDT7025L25J | IDT70V05L35J |
| IDT7005S45J | IDT7008L25J | IDT7015S35JI | IDT7025L25JI | IDT70V05L45J |
| IDT7005S55J | IDT7008L35J | IDT7016L12J | IDT7025L30J | IDT70V05L55J |
| IDT7005S55JI | IDT7008L45J | IDT7016L15J | IDT7025L35J | IDT70V05S15J |
| IDT7006L15J | IDT7008L55J | IDT7016L20J | IDT7025L35JI | IDT70V05S20J |
| IDT7006L15JI | IDT7008S15J | IDT7016L20JI | IDT7025L45J | IDT70V05S25J |
| IDT7006L17J | IDT7008S20J | IDT7016L25J | IDT7025L55J | IDT70V05S35J |
| IDT7006L17JI | IDT7008S25J | IDT7016L35J | IDT7025L55JI | IDT70V05S45J |
| IDT7006L20J | IDT7008S35J | IDT7016S12J | IDT7025S15J | IDT70V05S55J |
| IDT7006L20JI | IDT7008S45J | IDT7016S15J | IDT7025S17J | IDT70V06L15J |
| IDT7006L25J | IDT7008S55J | IDT7016S20J | IDT7025S20J | IDT70V06L20J |
| IDT7006L25JI | IDT70121L25J | IDT7016S25J | IDT7025S25J | IDT70V06L20JI |
| IDT7006L35J | IDT70121L35J | IDT7016S35J | IDT7025S30J | IDT70V06L25J |

Note: For T & R (shipping method) "8" is added to the part number and for industrial grade, letter "I" is added to the part number.



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Appendix - 1

| | | | | |
|---------------|----------------|----------------|----------------|----------------|
| IDT70V06L35J | IDT70V26L25JI | IDT71321SA45J | IDT7133SA70JI | IDT7140LA25J |
| IDT70V06L45J | IDT70V26L30J | IDT71321SA55J | IDT7133SA90J | IDT7140LA25JI |
| IDT70V06L55J | IDT70V26L35J | IDT71321SA55JI | IDT7133SA90JI | IDT7140LA35J |
| IDT70V06S15J | IDT70V26L45J | IDT7132LA100J | IDT71342LA20J | IDT7140LA35JI |
| IDT70V06S20J | IDT70V26L55J | IDT7132LA20J | IDT71342LA25J | IDT7140LA55J |
| IDT70V06S25J | IDT70V26S25J | IDT7132LA25J | IDT71342LA25JI | IDT7140LA55JI |
| IDT70V06S35J | IDT70V26S25JI | IDT7132LA25JI | IDT71342LA35J | IDT7140SA100J |
| IDT70V06S45J | IDT70V26S30J | IDT7132LA35J | IDT71342LA45J | IDT7140SA100JI |
| IDT70V06S55J | IDT70V26S35J | IDT7132LA35JI | IDT71342LA45JI | IDT7140SA20J |
| IDT70V07L25J | IDT70V26S45J | IDT7132LA55J | IDT71342LA55J | IDT7140SA25J |
| IDT70V07L25JI | IDT70V26S55J | IDT7132LA70J | IDT71342LA70J | IDT7140SA25JI |
| IDT70V07L35J | IDT7130LA100J | IDT7132LA70JI | IDT71342LA70JI | IDT7140SA35J |
| IDT70V07L55J | IDT7130LA100JI | IDT7132SA100J | IDT71342SA20J | IDT7140SA35JI |
| IDT70V07S25J | IDT7130LA20J | IDT7132SA100JI | IDT71342SA25J | IDT7140SA55J |
| IDT70V07S35J | IDT7130LA25J | IDT7132SA20J | IDT71342SA35J | IDT7140SA70JI |
| IDT70V07S55J | IDT7130LA25JI | IDT7132SA25J | IDT71342SA35JI | IDT71421LA20J |
| IDT70V24L15J | IDT7130LA35J | IDT7132SA25JI | IDT71342SA45J | IDT71421LA25J |
| IDT70V24L20J | IDT7130LA35JI | IDT7132SA35J | IDT71342SA55J | IDT71421LA25JI |
| IDT70V24L20JI | IDT7130LA55J | IDT7132SA35JI | IDT71342SA55JI | IDT71421LA35J |
| IDT70V24L25J | IDT7130LA55JI | IDT7132SA55J | IDT71342SA70J | IDT71421LA35JI |
| IDT70V24L35J | IDT7130SA100J | IDT7132SA55JI | IDT71342SA70JI | IDT71421LA55J |
| IDT70V24L45J | IDT7130SA100JI | IDT7133LA20J | IDT7134LA20J | IDT71421LA55JI |
| IDT70V24L55J | IDT7130SA20J | IDT7133LA25J | IDT7134LA20JI | IDT71421SA20J |
| IDT70V24S15J | IDT7130SA25J | IDT7133LA25JI | IDT7134LA25J | IDT71421SA25J |
| IDT70V24S20J | IDT7130SA25JI | IDT7133LA35J | IDT7134LA25JI | IDT71421SA35J |
| IDT70V24S25J | IDT7130SA35J | IDT7133LA35JI | IDT7134LA35J | IDT71421SA35JI |
| IDT70V24S35J | IDT7130SA35JI | IDT7133LA45J | IDT7134LA35JI | IDT71421SA55J |
| IDT70V24S35JI | IDT7130SA45JI | IDT7133LA45JI | IDT7134LA45J | IDT71421SA55JI |
| IDT70V24S45J | IDT7130SA55J | IDT7133LA55J | IDT7134LA55J | IDT7142LA100J |
| IDT70V24S55J | IDT7130SA55JI | IDT7133LA55JI | IDT7134LA55JI | IDT7142LA20J |
| IDT70V25L15J | IDT7130SA70JI | IDT7133LA70J | IDT7134LA70J | IDT7142LA25J |
| IDT70V25L20J | IDT71321LA20J | IDT7133LA70JI | IDT7134LA70JI | IDT7142LA25JI |
| IDT70V25L20JI | IDT71321LA25J | IDT7133LA90J | IDT7134SA20J | IDT7142LA35J |
| IDT70V25L25J | IDT71321LA25JI | IDT7133LA90JI | IDT7134SA25J | IDT7142LA55J |
| IDT70V25L35J | IDT71321LA35J | IDT7133SA20J | IDT7134SA25JI | IDT7142LA55JI |
| IDT70V25L45J | IDT71321LA45J | IDT7133SA25J | IDT7134SA35J | IDT7142SA100J |
| IDT70V25L55J | IDT71321LA45JI | IDT7133SA25JI | IDT7134SA45J | IDT7142SA20J |
| IDT70V25S15J | IDT71321LA55J | IDT7133SA35J | IDT7134SA45JI | IDT7142SA25J |
| IDT70V25S20J | IDT71321LA55JI | IDT7133SA35JI | IDT7134SA55J | IDT7142SA25JI |
| IDT70V25S25J | IDT71321SA20J | IDT7133SA45J | IDT7134SA55JI | IDT7142SA35J |
| IDT70V25S35J | IDT71321SA25J | IDT7133SA45JI | IDT7134SA70J | IDT7142SA55J |
| IDT70V25S45J | IDT71321SA25JI | IDT7133SA55J | IDT7134SA70JI | IDT7143LA20J |
| IDT70V25S55J | IDT71321SA35J | IDT7133SA55JI | IDT7140LA100J | IDT7143LA25J |
| IDT70V26L25J | IDT71321SA35JI | IDT7133SA70J | IDT7140LA20J | IDT7143LA25JI |

Note: For T & R (shipping method) "8" is added to the part number and for industrial grade, letter "I" is added to the part number.



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Appendix - 1

| | | | | |
|----------------|---------------|----------------|----------------|---------------------|
| IDT7143LA35J | IDT7202LA15JI | IDT7208L35J | IDT72235LB25JI | IDT72V03L35J |
| IDT7143LA55J | IDT7202LA20J | IDT72103L35J | IDT72241L10J | IDT72V04L15J |
| IDT7143LA90J | IDT7202LA25J | IDT72103L50J | IDT72241L15J | IDT72V04L25J |
| IDT7143SA20J | IDT7202LA25JI | IDT72104L35J | IDT72241L15JI | IDT72V04L25JI |
| IDT7143SA25J | IDT7202LA35J | IDT72104L50J | IDT72241L25J | IDT72V04L35J |
| IDT7143SA25JI | IDT7202LA50J | IDT72201L10J | IDT72241L25JI | IDT72V05L15J |
| IDT7143SA35J | IDT7203L12J | IDT72201L15J | IDT72245LB10J | IDT72V05L25J |
| IDT7143SA55J | IDT7203L15J | IDT72201L15JI | IDT72245LB15J | IDT72V05L25JI |
| IDT7143SA90J | IDT7203L15JI | IDT72201L25J | IDT72245LB15JI | IDT72V05L35J |
| IDT71502L25J | IDT7203L20J | IDT72201L25JI | IDT72245LB25J | IDT72V06L15J |
| IDT71V321L25J | IDT7203L25J | IDT72205LB10J | IDT72245LB25JI | IDT72V06L25J |
| IDT71V321L25JI | IDT7203L25JI | IDT72205LB15J | IDT72251L10J | IDT72V06L25JI |
| IDT71V321L35J | IDT7203L35J | IDT72205LB15JI | IDT72251L15J | IDT72V06L35J |
| IDT71V321L55J | IDT7203L50J | IDT72205LB25J | IDT72251L15JI | IDT72V201L10J |
| IDT71V321L55JI | IDT7204L12J | IDT72205LB25JI | IDT72251L25J | IDT72V201L15J |
| IDT71V321LA25J | IDT7204L15J | IDT72211L10J | IDT72251L25JI | IDT72V201L15JI |
| IDT71V321LA35J | IDT7204L15JI | IDT72211L15J | IDT72421L10J | IDT72V201L20J |
| IDT71V321LA45J | IDT7204L20J | IDT72211L15JI | IDT72421L15J | IDT72V211L10J |
| IDT71V321LA55J | IDT7204L25J | IDT72211L25J | IDT72421L15JI | IDT72V211L15J |
| IDT71V321S25J | IDT7204L25JI | IDT72211L25JI | IDT72421L25J | IDT72V211L15JI |
| IDT71V321S35J | IDT7204L35J | IDT72215LB10J | IDT72421L25JI | IDT72V211L20J |
| IDT71V321S55J | IDT7204L50J | IDT72215LB15J | IDT72605L20J | IDT72V221L10J |
| IDT71V321SA25J | IDT7205L12J | IDT72215LB15JI | IDT72605L25J | IDT72V221L15J |
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| IDT7200L25JI | IDT7206L25J | IDT72225LB15J | IDT728985J | IDT72V241L15JI |
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| IDT7201LA25J | IDT7207L25JI | IDT72231L25J | IDT72V02L25J | IDT72V8980J |
| IDT7201LA25JI | IDT7207L35J | IDT72231L25JI | IDT72V02L25JI | IDT72V8981J |
| IDT7201LA35J | IDT7207L50J | IDT72235LB10J | IDT72V02L35J | IDT72V8985J |
| IDT7201LA50J | IDT7208L20J | IDT72235LB15J | IDT72V03L15J | IDT72V8988J |
| IDT7202LA12J | IDT7208L25J | IDT72235LB15JI | IDT72V03L25J | IDT72V90823J |
| IDT7202LA15J | IDT7208L25JI | IDT72235LB25J | IDT72V03L25JI | IDT74FCT388915T100J |

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SUMITOMO BAKELITE SUMIKON[®]

EME-G600

MULTI-AROMATIC RESIN
Br/Sb FREE
FOR Pb FREE PKG
LOW WATER ABSORPTION

EME-G600

TYPICAL PROPERTIES:

| <u>ITEM</u> | <u>TEST METHOD</u> | <u>UNIT</u> | <u>VALUES</u> |
|------------------------------|--------------------|----------------------------|----------------------|
| SPIRAL FLOW | SB-U-03-003 | cm | 80 |
| GEL TIME (at 175°C) | SB-U-03-005 | sec | 27 |
| THERMAL EXPANSION α_1 | SB-U-02-002 | $X 10^{-5} 1/^{\circ}C$ | 1.0 |
| THERMAL EXPANSION α_2 | SB-U-02-002 | $X 10^{-5} 1/^{\circ}C$ | 3.9 |
| T _g | SB-U-02-002 | $^{\circ}C$ | 135 |
| THERMAL CONDUCTIVITY | SB-U-02-004 | W/m \cdot $^{\circ}C$ | 92x 10 ⁻² |
| FLEXURAL STRENGTH | SB-U-01-001 | N/ mm ² | |
| (at 25°C) | | | 185 |
| (at 240°C) | | | 21 |
| FLEXURAL MODULUS | SB-U-01-002 | $X 10^2$ N/mm ² | |
| (at 25°C) | | | 240 |
| (at 240°C) | | | 7.2 |
| SPECIFIC GRAVITY | SB-U-03-018 | ----- | 1.98 |
| VOLUME RESISTIVITY | SB-U-00-004 | Ω - cm | 1 x 10 ¹² |
| (at 150°C) | | | |
| UL FLAME CLASS | SB-U-03-003 | UL-94 | V-0 |
| WATER ABSORPTION | SB-U-03-002 | % weight gain | 0.13 |
| (boiling, 24 h) | | | |
| EXTRACTED Na ⁺ | SB-U-04-043 | ppm | 1 |
| EXTRACTED Cl ⁻ | SB-U-04-043 | Ppm | 5 |

TYPICAL, NOT GUARANTEED PROPERTIES

MOLDING AND POST MOLD CURE CONDITIONS:

| | <u>STANDARD</u> | <u>RANGE</u> |
|---------------------------------|-------------------------|-----------------------------|
| TRANSFER PRESSURE | 80 x 10 ⁵ Pa | 70-120 x 10 ⁵ Pa |
| MOLD TEMPERATURE | 180°C | 175-185°C |
| CURE TIME (C or A) [#] | C/90 sec | 70-120 sec |
| POST-MOLD CURE TEMP | 175°C | 170-180°C |
| POST-MOLD CURE TIME | 6 h | 4-8 h |

[#]Conventional or Auto

rev. Feb. '03

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SUMITOMO BAKELITE CO., LTD.

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