



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A-0312-01** DATE: 12/5/2003

Product Affected: SSOP package family  
(see attachment for affected part #s).

Date Effective: 3/5/2004

### MEANS OF DISTINGUISHING CHANGED DEVICES:

- ☐ Product Mark  
☒ Back Mark Lot Number will have "N1" suffix  
☐ Date Code  
☐ Other

Contact: Geoffrey Cortes

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Attachment: ☒ Yes ☐ No

Samples: See attachment

### DESCRIPTION AND PURPOSE OF CHANGE:

- ☐ Die Technology  
☐ Wafer Fabrication Process  
☐ Assembly Process  
☐ Equipment  
☒ Material  
☐ Testing  
☐ Manufacturing Site  
☐ Data Sheet  
☐ Other

IDT has qualified the SSOP (Shrink Small Outline Package) package family using new mold compound Sumitomo EME-G600 series. This notification is to advise our customer of qualification and addition of new assembly material. The new mold compound material can meet 260°C peak reflow temperature requirements. Please see attachment for qualification data and additional details.

### RELIABILITY/QUALIFICATION SUMMARY:

Please see attached reliability qualification data.

### CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: \_\_\_\_\_

☐ **Approval for shipments prior to effective date.**

Name/Date: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone# /Fax# : \_\_\_\_\_

CUSTOMER COMMENTS: \_\_\_\_\_

### IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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### ATTACHMENT - PCN #: A-0312-01

**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 SSOP (Shrink Small Outline Package) 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.

| Description            | Material                 |                          |
|------------------------|--------------------------|--------------------------|
|                        | Existing                 | Add                      |
| Mold Compound Material | Sumitomo EME-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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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT - PCN #: A-0312-01

**Qualification Plan #:** P02-11-09

**Test Vehicle:** IDTQS5LV919

**Qualification Test Plan and Results:**

| Test Description                                                   | Test Method                | Test Results<br>IDTQS5LV919<br>(SS / # of Fails) |
|--------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| * High Accelerated Stress Test<br>(Biased, 130 °C/85% RH, 100 Hrs) | JESD22-A110-B              | 45/0                                             |
| * Temperature Cycling<br>(-65 °C to 150 °C, 500 cycle)             | JESD22-A104-B              | 45/0                                             |
| * Auto Clave<br>(121 °C, 2 ATM, 168 Hrs)                           | JESD22-A102-C              | 45/0                                             |
| High Temp Bake<br>(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<br>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

|                  |                      |                    |                    |                     |
|------------------|----------------------|--------------------|--------------------|---------------------|
| IDT29FCT2052ATQ  | IDT49FCT806PY        | IDT74CBTLV16245PV  | IDT74FCT162240CTPV | IDT74FCT162823CTPV  |
| IDT29FCT2052BTQ  | IDT5993A-2Q          | IDT74CBTLV16292PV  | IDT74FCT162244ATPV | IDT74FCT162827ATPV  |
| IDT29FCT2052CTQ  | IDT5993A-5QI         | IDT74CBTLV16800PV  | IDT74FCT162244CTPV | IDT74FCT162827CTPV  |
| IDT29FCT520ATPY  | IDT5993A-7QI         | IDT74CBTLV3125Q    | IDT74FCT162244ETPV | IDT74FCT162841ATPV  |
| IDT29FCT520ATQ   | IDT5V925QI           | IDT74CBTLV3126Q    | IDT74FCT162245ATPV | IDT74FCT162841CTPV  |
| IDT29FCT520BTPY  | IDT5V993A-2Q         | IDT74CBTLV3244PY   | IDT74FCT162245CTPV | IDT74FCT162952ATPV  |
| IDT29FCT520BTQ   | IDT5V993A-5QI        | IDT74CBTLV3244Q    | IDT74FCT162260ATPV | IDT74FCT162952CTPV  |
| IDT29FCT520CTPY  | IDT5V993A-7QI        | IDT74CBTLV3245PY   | IDT74FCT162260CTPV | IDT74FCT162952ETPV  |
| IDT29FCT520CTQ   | IDT72V8980PV         | IDT74CBTLV3245Q    | IDT74FCT162260ETPV | IDT74FCT162H244ATPV |
| IDT29FCT52ATPY   | IDT72V8985PV         | IDT74CBTLV3251PY   | IDT74FCT162344ATPV | IDT74FCT162H244CTPV |
| IDT29FCT52ATQ    | IDT74ALVC04PY        | IDT74CBTLV3251Q    | IDT74FCT162344CTPV | IDT74FCT162H245ATPV |
| IDT29FCT52BTPY   | IDT74ALVC08PY        | IDT74CBTLV3253PY   | IDT74FCT162344ETPV | IDT74FCT162H245CTPV |
| IDT29FCT52BTQ    | IDT74ALVC125PY       | IDT74CBTLV3253Q    | IDT74FCT162373ATPV | IDT74FCT162H272ATPV |
| IDT29FCT52CTPY   | IDT74ALVC162244PV    | IDT74CBTLV3257PY   | IDT74FCT162373CTPV | IDT74FCT162H272CTPV |
| IDT29FCT52CTQ    | IDT74ALVC162245PV    | IDT74CBTLV3257Q    | IDT74FCT162373ETPV | IDT74FCT162H501ATPV |
| IDT29FCT52DTPY   | IDT74ALVC16244APV    | IDT74CBTLV3383PY   | IDT74FCT162374ATPV | IDT74FCT162H501CTPV |
| IDT29FCT52DTQ    | IDT74ALVC16245PV     | IDT74CBTLV3383Q    | IDT74FCT162374CTPV | IDT74FCT162H952ATPV |
| IDT49FCT20805PYI | IDT74ALVC162836PV    | IDT74CBTLV3384PY   | IDT74FCT162374ETPV | IDT74FCT162H952CTPV |
| IDT49FCT20805QI  | IDT74ALVC164245PV    | IDT74CBTLV3384Q    | IDT74FCT16240ATPV  | IDT74FCT162H952ETPV |
| IDT49FCT3805APY  | IDT74ALVC244PY       | IDT74CBTLV3861PY   | IDT74FCT16240CTPV  | IDT74FCT163244APV   |
| IDT49FCT3805APYI | IDT74ALVC244Q        | IDT74CBTLV3861Q    | IDT74FCT16240ETPV  | IDT74FCT163244CPV   |
| IDT49FCT3805AQ   | IDT74ALVCH162244PV   | IDT74CBTLV3862PY   | IDT74FCT16244ATPV  | IDT74FCT163245APV   |
| IDT49FCT3805AQI  | IDT74ALVCH162245PV   | IDT74CBTLV3862Q    | IDT74FCT16244CTPV  | IDT74FCT163245CPV   |
| IDT49FCT3805DPYI | IDT74ALVCH162373PV   | IDT74CBTLV6800PY   | IDT74FCT16245ATPV  | IDT74FCT163344APV   |
| IDT49FCT3805DQI  | IDT74ALVCH162374PV   | IDT74CBTLV6800Q    | IDT74FCT16245CTPV  | IDT74FCT163344CPV   |
| IDT49FCT3805EPYI | IDT74ALVCH16244PV    | IDT74CBTLVR16292PV | IDT74FCT16245ETPV  | IDT74FCT163373APV   |
| IDT49FCT3805EQI  | IDT74ALVCH16245PV    | IDT74CBTLVR3384PY  | IDT74FCT162500ATPV | IDT74FCT163373CPV   |
| IDT49FCT3805PY   | IDT74ALVCH16260PV    | IDT74CBTLVR3384Q   | IDT74FCT162500CTPV | IDT74FCT163374APV   |
| IDT49FCT3805PYI  | IDT74ALVCH16270PV    | IDT74CBTLVR3861PY  | IDT74FCT162501ATPV | IDT74FCT163374CPV   |
| IDT49FCT3805Q    | IDT74ALVCH16276PV    | IDT74CBTLVR3861Q   | IDT74FCT162501CTPV | IDT74FCT163501APV   |
| IDT49FCT3805QI   | IDT74ALVCH16373PV    | IDT74CBTLVR3862PY  | IDT74FCT162511ATPV | IDT74FCT163501CPV   |
| IDT49FCT805APY   | IDT74ALVCH16374PV    | IDT74CBTLVR3862Q   | IDT74FCT162511CTPV | IDT74FCT163543APV   |
| IDT49FCT805APYI  | IDT74ALVCH16501PV    | IDT74FCT138ATQ     | IDT74FCT162543ATPV | IDT74FCT163543CPV   |
| IDT49FCT805BTPY  | IDT74ALVCH16601PV    | IDT74FCT138CTQ     | IDT74FCT162543CTPV | IDT74FCT163646APV   |
| IDT49FCT805BTQ   | IDT74ALVCH16646PV    | IDT74FCT139ATQ     | IDT74FCT16260ATPV  | IDT74FCT163646CPV   |
| IDT49FCT805CTPY  | IDT74ALVCH16721PV    | IDT74FCT139CTQ     | IDT74FCT16260CTPV  | IDT74FCT16373ATPV   |
| IDT49FCT805CTQ   | IDT74ALVCH16903PV    | IDT74FCT151ATQ     | IDT74FCT16260ETPV  | IDT74FCT16373CTPV   |
| IDT49FCT805PY    | IDT74ALVCH16952PV    | IDT74FCT151CTQ     | IDT74FCT162646ATPV | IDT74FCT16374ATPV   |
| IDT49FCT805PYI   | IDT74ALVCHR162245PV  | IDT74FCT157ATQ     | IDT74FCT162646CTPV | IDT74FCT16374CTPV   |
| IDT49FCT806APY   | IDT74ALVCHR162269APV | IDT74FCT157CTQ     | IDT74FCT162652ATPV | IDT74FCT16374ETPV   |
| IDT49FCT806BTPY  | IDT74CBTLV16210PV    | IDT74FCT157DTQ     | IDT74FCT162652CTPV | IDT74FCT163827APV   |
| IDT49FCT806BTQ   | IDT74CBTLV16211PV    | IDT74FCT161ATQ     | IDT74FCT162701ATPV | IDT74FCT163827CPV   |
| IDT49FCT806CTPY  | IDT74CBTLV16212PV    | IDT74FCT161CTQ     | IDT74FCT162701TPV  | IDT74FCT163952APV   |
| IDT49FCT806CTQ   | IDT74CBTLV16214PV    | IDT74FCT162240ATPV | IDT74FCT162823ATPV | IDT74FCT163952CPV   |

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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|--------------------|-----------------|----------------------|------------------|----------------------|
| IDT74FCT163ATQ     | IDT74FCT240ATQ  | IDT74FCT3574AQ       | IDT74FCT541CTPY  | IDT74FCT827CTPY      |
| IDT74FCT163CTQ     | IDT74FCT240CTPY | IDT74FCT3574Q        | IDT74FCT541CTQ   | IDT74FCT827CTQ       |
| IDT74FCT164245TPV  | IDT74FCT240CTQ  | IDT74FCT373ATPY      | IDT74FCT543ATPY  | IDT74FCT841ATPY      |
| IDT74FCT16500ATPV  | IDT74FCT244ATPY | IDT74FCT373ATQ       | IDT74FCT543ATQ   | IDT74FCT841ATQ       |
| IDT74FCT16500CTPV  | IDT74FCT244ATQ  | IDT74FCT373CTPY      | IDT74FCT543CTPY  | IDT74FCT841CTPY      |
| IDT74FCT16501ATPV  | IDT74FCT244CTPY | IDT74FCT373CTQ       | IDT74FCT543CTQ   | IDT74FCT841CTQ       |
| IDT74FCT16501CTPV  | IDT74FCT244CTQ  | IDT74FCT374ATPY      | IDT74FCT543DTPY  | IDT74FCT88915TT100PY |
| IDT74FCT16543ATPV  | IDT74FCT245ATPY | IDT74FCT374ATQ       | IDT74FCT543DTQ   | IDT74FCT88915TT133PY |
| IDT74FCT16543CTPV  | IDT74FCT245ATQ  | IDT74FCT374CTPY      | IDT74FCT573ATPY  | IDT74FCT88915TT55PY  |
| IDT74FCT16543ETPV  | IDT74FCT245CTPY | IDT74FCT374CTQ       | IDT74FCT573ATQ   | IDT74FCT88915TT70PY  |
| IDT74FCT166244ATPV | IDT74FCT245CTQ  | IDT74FCT377ATQ       | IDT74FCT573CTPY  | IDT74FST163209PV     |
| IDT74FCT166244CTPV | IDT74FCT2541ATQ | IDT74FCT377CTQ       | IDT74FCT573CTQ   | IDT74FST163212PV     |
| IDT74FCT166245ATPV | IDT74FCT2541CTQ | IDT74FCT377DTQ       | IDT74FCT574ATPY  | IDT74FST163214PV     |
| IDT74FCT166245TPV  | IDT74FCT2543ATQ | IDT74FCT3807APY      | IDT74FCT574ATQ   | IDT74FST163232PV     |
| IDT74FCT16646ATPV  | IDT74FCT2543CTQ | IDT74FCT3807APYI     | IDT74FCT574CTPY  | IDT74FST163233PV     |
| IDT74FCT16646CTPV  | IDT74FCT2573ATQ | IDT74FCT3807AQ       | IDT74FCT574CTQ   | IDT74FST163244PV     |
| IDT74FCT16646ETPV  | IDT74FCT2573CTQ | IDT74FCT3807AQI      | IDT74FCT646ATPY  | IDT74FST163245PV     |
| IDT74FCT16652ATPV  | IDT74FCT2574ATQ | IDT74FCT3807DPYI     | IDT74FCT646ATQ   | IDT74FST32XL384PV    |
| IDT74FCT16652CTPV  | IDT74FCT2574CTQ | IDT74FCT3807DQI      | IDT74FCT646CTPY  | IDT74FST6800Q        |
| IDT74FCT16823ATPV  | IDT74FCT257ATQ  | IDT74FCT3807EPYI     | IDT74FCT646CTQ   | IDT74GTLP16612PV     |
| IDT74FCT16823CTPV  | IDT74FCT257CTQ  | IDT74FCT3807EQI      | IDT74FCT652ATQ   | IDT74LVC07APY        |
| IDT74FCT16823ETPV  | IDT74FCT257DTQ  | IDT74FCT3807PY       | IDT74FCT652CTQ   | IDT74LVC08APY        |
| IDT74FCT16827ATPV  | IDT74FCT2646ATQ | IDT74FCT3807PYI      | IDT74FCT807BTPY  | IDT74LVC11APY        |
| IDT74FCT16827CTPV  | IDT74FCT2646CTQ | IDT74FCT3807Q        | IDT74FCT807BTPYI | IDT74LVC125APY       |
| IDT74FCT16841ATPV  | IDT74FCT2652ATQ | IDT74FCT3807QI       | IDT74FCT807BTQ   | IDT74LVC138APY       |
| IDT74FCT16841CTPV  | IDT74FCT2652CTQ | IDT74FCT3811PYI      | IDT74FCT807BTQI  | IDT74LVC138AQ        |
| IDT74FCT16952ATPV  | IDT74FCT273ATPY | IDT74FCT3827AQ       | IDT74FCT807CTPY  | IDT74LVC157APY       |
| IDT74FCT16952CTPV  | IDT74FCT273ATQ  | IDT74FCT3827BQ       | IDT74FCT807CTPYI | IDT74LVC157AQ        |
| IDT74FCT16952ETPV  | IDT74FCT273CTPY | IDT74FCT388915T100PY | IDT74FCT807CTQ   | IDT74LVC161APY       |
| IDT74FCT20807PYI   | IDT74FCT273CTQ  | IDT74FCT388915T133PY | IDT74FCT807CTQI  | IDT74LVC161AQ        |
| IDT74FCT20807QI    | IDT74FCT2827ATQ | IDT74FCT388915T150PY | IDT74FCT810BTPY  | IDT74LVC162244APV    |
| IDT74FCT2240ATQ    | IDT74FCT2827CTQ | IDT74FCT388915T70PY  | IDT74FCT810BTQ   | IDT74LVC162245APV    |
| IDT74FCT2240CTQ    | IDT74FCT299ATQ  | IDT74FCT521ATPY      | IDT74FCT810CTPY  | IDT74LVC162374APV    |
| IDT74FCT2244ATQ    | IDT74FCT299CTQ  | IDT74FCT521ATQ       | IDT74FCT810CTQ   | IDT74LVC16244APV     |
| IDT74FCT2244CTQ    | IDT74FCT3244APY | IDT74FCT521CTPY      | IDT74FCT821ATPY  | IDT74LVC16245APV     |
| IDT74FCT2245ATQ    | IDT74FCT3244AQ  | IDT74FCT521CTQ       | IDT74FCT821ATQ   | IDT74LVC16344APV     |
| IDT74FCT2245CTQ    | IDT74FCT3244PY  | IDT74FCT534ATQ       | IDT74FCT821CTPY  | IDT74LVC16373APV     |
| IDT74FCT2257ATQ    | IDT74FCT3244Q   | IDT74FCT534CTQ       | IDT74FCT821CTQ   | IDT74LVC16374APV     |
| IDT74FCT2257CTQ    | IDT74FCT3245APY | IDT74FCT540ATPY      | IDT74FCT823ATPY  | IDT74LVC16501APV     |
| IDT74FCT2373ATQ    | IDT74FCT3245AQ  | IDT74FCT540ATQ       | IDT74FCT823ATQ   | IDT74LVC16601APV     |
| IDT74FCT2373CTQ    | IDT74FCT3245PY  | IDT74FCT540CTPY      | IDT74FCT823CTPY  | IDT74LVC16646APV     |
| IDT74FCT2374ATQ    | IDT74FCT3245Q   | IDT74FCT540CTQ       | IDT74FCT823CTQ   | IDT74LVC16823APV     |
| IDT74FCT2374CTQ    | IDT74FCT3573AQ  | IDT74FCT541ATPY      | IDT74FCT827ATPY  | IDT74LVC16827APV     |
| IDT74FCT240ATPY    | IDT74FCT3573Q   | IDT74FCT541ATQ       | IDT74FCT827ATQ   | IDT74LVC16952APV     |

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|--------------------|---------------------|------------------|-------------------|-------------------|
| IDT74LVC2244APY    | IDT74LVCH16373APV   | IDTQS32X245Q2    | IDTQS3VH16245PV   | IDTQS74FCT2240CTQ |
| IDT74LVC2244AQ     | IDT74LVCH16374APV   | IDTQS32X2861Q1   | IDTQS3VH16800PV   | IDTQS74FCT2240TQ  |
| IDT74LVC2245APY    | IDT74LVCH16501APV   | IDTQS32X383Q1    | IDTQS3VH16861PV   | IDTQS74FCT2244ATQ |
| IDT74LVC2245AQ     | IDT74LVCH16543APV   | IDTQS32X384Q1    | IDTQS3VH16862PV   | IDTQS74FCT2244CTQ |
| IDT74LVC244APY     | IDT74LVCH16601APV   | IDTQS32X861Q1    | IDTQS3VH2245Q     | IDTQS74FCT2244TQ  |
| IDT74LVC244AQ      | IDT74LVCH16646APV   | IDTQS32XL383Q1   | IDTQS3VH244Q      | IDTQS74FCT2245ATQ |
| IDT74LVC245APY     | IDT74LVCH16652APV   | IDTQS32XL384Q1   | IDTQS3VH245Q      | IDTQS74FCT2245CTQ |
| IDT74LVC245AQ      | IDT74LVCH16827APV   | IDTQS32XR245Q2   | IDTQS3VH251Q      | IDTQS74FCT2245TQ  |
| IDT74LVC257APY     | IDT74LVCH2244AQ     | IDTQS32XR861Q1   | IDTQS3VH253Q      | IDTQS74FCT2257ATQ |
| IDT74LVC257AQ      | IDT74LVCH2245AQ     | IDTQS32XR862Q1   | IDTQS3VH257Q      | IDTQS74FCT2257CTQ |
| IDT74LVC273APY     | IDT74LVCH244APY     | IDTQS32XV245Q2   | IDTQS3VH2861Q     | IDTQS74FCT2257TQ  |
| IDT74LVC273AQ      | IDT74LVCH244AQ      | IDTQS32XVH2245Q2 | IDTQS3VH2862Q     | IDTQS74FCT251ATQ  |
| IDT74LVC32APY      | IDT74LVCH245APY     | IDTQS32XVH245Q2  | IDTQS3VH383Q      | IDTQS74FCT253ATQ  |
| IDT74LVC373APY     | IDT74LVCH245AQ      | IDTQS32XVH384Q1  | IDTQS3VH384Q      | IDTQS74FCT2541ATQ |
| IDT74LVC373AQ      | IDT74LVCHR162245APV | IDTQS3383Q       | IDTQS3VH800Q      | IDTQS74FCT2541CTQ |
| IDT74LVC374APY     | IDT74LVCHR16501APV  | IDTQS3384Q       | IDTQS3VH861Q      | IDTQS74FCT2541TQ  |
| IDT74LVC374AQ      | IDT74LVCR162245APV  | IDTQS3388Q       | IDTQS3VH862Q      | IDTQS74FCT2573ATQ |
| IDT74LVC377APY     | IDT74LVCR2245APY    | IDTQS3389Q       | IDTQS4A101Q       | IDTQS74FCT2573TQ  |
| IDT74LVC377AQ      | IDT74LVCR2245AQ     | IDTQS3390Q       | IDTQS4A105Q       | IDTQS74FCT2574ATQ |
| IDT74LVC4245APY    | IDT82V3001APV       | IDTQS33X253Q1    | IDTQS4A110Q       | IDTQS74FCT2574CTQ |
| IDT74LVC4245AQ     | IDT82V3001PV        | IDTQS33X257Q1    | IDTQS4A201Q       | IDTQS74FCT2574TQ  |
| IDT74LVC541APY     | IDT82V3002APV       | IDTQS34X2245Q3   | IDTQS4A205Q       | IDTQS74FCT2821ATQ |
| IDT74LVC541AQ      | IDT82V3002PV        | IDTQS34X245Q3    | IDTQS4A210Q       | IDTQS74FCT2821BTQ |
| IDT74LVC573APY     | IDT82V3011PV        | IDTQS34X383Q3    | IDTQS4A215Q1      | IDTQS74FCT2821CTQ |
| IDT74LVC573AQ      | IDT82V3012PV        | IDTQS34XR245Q3   | IDTQS5917T-100TQ  | IDTQS74FCT2823ATQ |
| IDT74LVC574APY     | IDT82V3155PV        | IDTQS34XV245Q3   | IDTQS5917T-132TQ  | IDTQS74FCT2823BTQ |
| IDT74LVC574AQ      | IDTQS3125Q          | IDTQS34XVH2245Q3 | IDTQS5917T-70TQ   | IDTQS74FCT2827ATQ |
| IDT74LVC74APY      | IDTQS3126Q          | IDTQS34XVH245Q3  | IDTQS5930-50TQ    | IDTQS74FCT2827BTQ |
| IDT74LVC823APY     | IDTQS316211PV       | IDTQS3800Q       | IDTQS5930-66TQ    | IDTQS74FCT2827CTQ |
| IDT74LVC823AQ      | IDTQS316212PV       | IDTQS3861Q       | IDTQS5LV919-100Q  | IDTQS74FCT2828ATQ |
| IDT74LVC827APY     | IDTQS316233PV       | IDTQS3L383Q      | IDTQS5LV919-133Q  | IDTQS74FCT2828BTQ |
| IDT74LVC827AQ      | IDTQS316245PV       | IDTQS3L384Q      | IDTQS5LV919-160Q  | IDTQS74FCT2841ATQ |
| IDT74LVCC3245APY   | IDTQS32245Q         | IDTQS3R245Q      | IDTQS5LV919-55Q   | IDTQS74FCT2841BTQ |
| IDT74LVCC3245AQ    | IDTQS32257Q         | IDTQS3R384Q      | IDTQS5LV919-70Q   | IDTQS74FCT2841CTQ |
| IDT74LVCC4245APY   | IDTQS32384Q         | IDTQS3R861Q      | IDTQS5LV931-50Q   |                   |
| IDT74LVCC4245AQ    | IDTQS32390Q         | IDTQS3R862Q      | IDTQS5LV931-66Q   |                   |
| IDT74LVCH162244APV | IDTQS3244Q          | IDTQS3V245Q      | IDTQS5LV931-80Q   |                   |
| IDT74LVCH162245APV | IDTQS3245Q          | IDTQS3VH125Q     | IDTQS74FCT153ATQ  |                   |
| IDT74LVCH162373APV | IDTQS3251Q          | IDTQS3VH126Q     | IDTQS74FCT153CTQ  |                   |
| IDT74LVCH162374APV | IDTQS3253Q          | IDTQS3VH16210PV  | IDTQS74FCT158ATQ  |                   |
| IDT74LVCH16244APV  | IDTQS3257Q          | IDTQS3VH16211PV  | IDTQS74FCT158CTQ  |                   |
| IDT74LVCH16245APV  | IDTQS32861Q         | IDTQS3VH16212PV  | IDTQS74FCT2157ATQ |                   |
| IDT74LVCH16260APV  | IDTQS32X2245Q2      | IDTQS3VH16233PV  | IDTQS74FCT2157CTQ |                   |
| IDT74LVCH16276APV  | IDTQS32X2384Q1      | IDTQS3VH16244PV  | IDTQS74FCT2240ATQ |                   |

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.

# SUMITOMO BAKELITE

## SUMIKON<sup>®</sup>

EME-G600

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

### EME-G600

#### TYPICAL PROPERTIES:

| ITEM                         | TEST METHOD | UNIT                                | VALUES              |
|------------------------------|-------------|-------------------------------------|---------------------|
| SPIRAL FLOW                  | SB-U-03-003 | cm                                  | 80                  |
| GEL TIME (at 175°C)          | SB-U-03-005 | sec                                 | 27                  |
| THERMAL EXPANSION $\alpha_1$ | SB-U-02-002 | $\times 10^{-5} 1/^{\circ}\text{C}$ | 1.0                 |
| THERMAL EXPANSION $\alpha_2$ | SB-U-02-002 | $\times 10^{-5} 1/^{\circ}\text{C}$ | 3.9                 |
| T <sub>g</sub>               | SB-U-02-002 | $^{\circ}\text{C}$                  | 135                 |
| THERMAL CONDUCTIVITY         | SB-U-02-004 | W/m $\cdot^{\circ}\text{C}$         | $92 \times 10^{-2}$ |
| FLEXURAL STRENGTH            | SB-U-01-001 | N/mm <sup>2</sup>                   | 185                 |
| (at 25°C)                    |             |                                     | 21                  |
| (at 240°C)                   |             |                                     |                     |
| FLEXURAL MODULUS             | SB-U-01-002 | $\times 10^2 \text{ N/mm}^2$        | 240                 |
| (at 25°C)                    |             |                                     | 7.2                 |
| (at 240°C)                   |             |                                     |                     |
| SPECIFIC GRAVITY             | SB-U-03-018 | -----                               | 1.98                |
| VOLUME RESISTIVITY           | SB-U-00-004 | $\Omega \cdot \text{cm}$            | $1 \times 10^{12}$  |
| (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 <sup>+</sup>    | SB-U-04-043 | ppm                                 | 1                   |
| EXTRACTED Cl <sup>-</sup>    | SB-U-04-043 | Ppm                                 | 5                   |

TYPICAL, NOT GUARANTEED PROPERTIES

#### MOLDING AND POST MOLD CURE CONDITIONS:

|                                 | STANDARD                    | RANGE                           |
|---------------------------------|-----------------------------|---------------------------------|
| TRANSFER PRESSURE               | $80 \times 10^5 \text{ Pa}$ | $70-120 \times 10^5 \text{ Pa}$ |
| MOLD TEMPERATURE                | 180°C                       | 175-185°C                       |
| CURE TIME (C or A) <sup>†</sup> | C/90 sec                    | 70-120 sec                      |
| POST-MOLD CURE TEMP             | 175°C                       | 170-180°C                       |
| POST-MOLD CURE TIME             | 6 h                         | 4-8 h                           |

<sup>†</sup>Conventional or Auto

rev. Feb. '03

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