



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A-0309-04** DATE: 10/10/2003
 Product Affected: PLCC package family
 (see attachment for affected part #s).

 Date Effective: 1/10/2004

MEANS OF DISTINGUISHING CHANGED DEVICES:

- Product Mark
- Back Mark Lot Number
- Date Code
- Other

Contact: Geoffrey Cortes
 Title: Manager, Corporate Quality & Reliability Attachment:: Yes No
 Phone #: (408) 492-8321
 Fax #: (408) 727-2328 Samples: See attachment
 E-mail: Geoffrey.Cortes@idt.com

DESCRIPTION AND PURPOSE OF CHANGE:

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material IDT has qualified the PLCC 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.
- Testing
- Manufacturing Site
- Data Sheet
- Other

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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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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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

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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
IDT71V321SA35J	IDT7205L15J	IDT72215LB25J	IDT72605L35J	IDT72V221L15JI
IDT71V321SA45J	IDT7205L20J	IDT72215LB25JI	IDT72605L50J	IDT72V221L20J
IDT71V321SA55J	IDT7205L25J	IDT72221L10J	IDT72615L20J	IDT72V231L10J
IDT7200L12J	IDT7205L25JI	IDT72221L15J	IDT72615L25J	IDT72V231L15J
IDT7200L15J	IDT7205L35J	IDT72221L15JI	IDT72615L35J	IDT72V231L15JI
IDT7200L15JI	IDT7205L50J	IDT72221L25J	IDT72615L50J	IDT72V231L20J
IDT7200L20J	IDT7206L15J	IDT72221L25JI	IDT728980J	IDT72V241L10J
IDT7200L25J	IDT7206L20J	IDT72225LB10J	IDT728981J	IDT72V241L15J
IDT7200L25JI	IDT7206L25J	IDT72225LB15J	IDT728985J	IDT72V241L15JI
IDT7200L35J	IDT7206L25JI	IDT72225LB15JI	IDT7290820J	IDT72V241L20J
IDT7200L50J	IDT7206L35J	IDT72225LB25J	IDT72V01L15J	IDT72V251L10J
IDT7201LA12J	IDT7206L50J	IDT72225LB25JI	IDT72V01L25J	IDT72V251L15J
IDT7201LA15J	IDT7207L15J	IDT72231L10J	IDT72V01L25JI	IDT72V251L15JI
IDT7201LA15JI	IDT7207L20J	IDT72231L15J	IDT72V01L35J	IDT72V251L20J
IDT7201LA20J	IDT7207L25J	IDT72231L15JI	IDT72V02L15J	IDT72V70200J
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

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

IDT74FCT388915T133J			
IDT74FCT388915T150J			
IDT74FCT388915T70J			
IDT74FCT88915TT100J			
IDT74FCT88915TT133J			
IDT74FCT88915TT55J			
IDT74FCT88915TT70J			
IDT79R3041-20J			
IDT79R3041-25J			
IDT79R3041-33J			
IDT79RV3041-20J			
IDT821024J			
IDT821611J			
IDT821621J			
IDT82V1671J			
IDTQS5917T-100TJ			
IDTQS5917T-132TJ			
IDTQS5917T-70TJ			
IDTQS5LV919-100J			
IDTQS5LV919-133J			
IDTQS5LV919-160J			
IDTQS5LV919-55J			
IDTQS5LV919-70J			

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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	$\times 10^{-5} 1/^{\circ}\text{C}$	1.0
THERMAL EXPANSION α_2	SB-U-02-002	$\times 10^{-5} 1/^{\circ}\text{C}$	3.9
T _g	SB-U-02-002	$^{\circ}\text{C}$	135
THERMAL CONDUCTIVITY	SB-U-02-004	W/m \cdot $^{\circ}\text{C}$	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	$\times 10^2$ 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

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SUMITOMO BAKELITE CO., LTD.

Tennoz, Parkside Building, 5-8 Higashi-Shinagawa, 2-Chome Shinagawa-ku, Tokyo 140, Japan