



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1702-01

PCN Type: Change of Materials
Data Sheet Change: Change in moisture sensitivity level (MSL) from 4 to 3 on
 15.0mm x 15.0mm x 1.53mm CABGA-196

Detail Of Change:

This notification is to advise our customers that the mold compound material and solder paste material will be changed to GE100RFC32 and SnSb respectively.

There is a change on the moisture performance from MSL 4 to MSL 3 for 15.0mm x 15.0mm x 1.53mm CABGA-196. No change in MSL rating for the other packages. The affected products will be shipped with dry pack and labeled as MSL 3 according to JEDEC J-STD-020. The peak reflow temperature remain unchanged at 260°C. Refer to Attachment I for the examples of moisture sensitive labels.

Change of Material Set

Description	From	To
Mold Compound Material	GE100RFC	GE100RFC32
Solder Paste Material	SnAg	SnSb

MSL Rating Changes on 15.0mm x 15.0mm x 1.53mm CABGA-196

From: MSL 4 Moisture Sensitive Label

CAUTION
This Bag Contains
MOISTURE-SENSITIVE DEVICES

LEVEL **4**

- Calculated shelf life in sealed bag:
12 months at < 40°C and < 90% relative humidity (RH)
- Peak package body temperature: 260°C
- After bag is opened, devices that will be subjected to reflow solder or other high temperature process must
 - Mounted within 72hours of factory condition <=30°C/60% RH, or b) Stored per J-STD-033
- Devices required bake, before mounting if:
 - Humidity indicator card reads >10% for level 2a-5a devices or >60% for level 2 devices when read at 23 +/-5 deg C
 - 3a or 3b are not met
- If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure
 procedure Bag Seal Date:

Note: Level and body temperature defined by IPC/JEDEC J-STD-020.

To: MSL 3 Moisture Sensitive Label

CAUTION
This Bag Contains
MOISTURE-SENSITIVE DEVICES

LEVEL **3**

- Calculated shelf life in sealed bag:
12 months at < 40°C and < 90% relative humidity (RH)
- Peak package body temperature: 260°C
- After bag is opened, devices that will be subjected to reflow solder or other high temperature process must
 - Mounted within 168hours of factory condition <=30°C/60% RH or b) Stored per J-STD-033
- Devices required bake, before mounting if:
 - Humidity indicator card reads >10% for level 2a-5a devices or >60% for level 2 devices when read at 23 +/-5 deg C
 - 3a or 3b are not met
- If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure
 procedure Bag Seal Date:

Note: Level and body temperature defined by IPC/JEDEC J-STD-020.

Note: There is no change to the peak reflow temperature of the affected products.



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Qualification Test Plans and Results :

Qual Plan & Results: The qualification was performed in accordance with JEDEC47 recommended tests

Qual Vehicle: 15.0mm x 15.0mm x 1.53mm CABGA-196 (3 lots)

Test Description	Test Method	Test Results (SS / Rej)		
		Lot 1	Lot 2	Lot 3
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	25/0	25/0	25/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	25/0	25/0	25/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	25/0	25/0	25/0
Moisture Classification (Level 3 @ 260 °C)	J-STD-020C	25/0	-	25/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 prior to stress test



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ATTACHMENT II - PCN # : A1702-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
8V89317BAG8	82V3910AUG-MV	82P33910-1BAG	82P33810BAG
82P33931BAG/W	8V89317BAG	82P33810ABAG	82P33831YBBAG
82P33931BAG	8V89316BAG8	82P33741BAG8	82P33831YABAG
82P33931-1BAG8	8V89316BAG	82P33741BAG	82P33831BAG8
82P33931-1BAG/W	82V3912AUG8	82P33731BAG8	82P33831BAG
82P33931-1BAG	82V3912AUG	82P33731BAG	82P33831ABAG8
82P33910BAG8	82V3911AUG8	82P33731ABAG8	82P33831ABAG/W
82P33910BAG/W	82V3911AUG	82P33731ABAG	82P33831ABAG
82P33910BAG	82V3910AUG8	82P33710BAG8	82P33810BAG8
82P33931BAG8	82P33910-1BAG8	82P33810ABAG/W	82P33710BAG
82V3910AUG	82P33910-1BAG/W	82P33810ABAG8	