

PRODUCT/PROCESS CHANGE NOTICE (PCN)

			· · ·
PCN #: A1702-01	DATE: 2-May-2017	MEANS OF DISTINGUI	SHING CHANGED DEVICES:
Product Affected: 13.0mm x 13.0mm x	1.53mm CABGA-144	□ Product Mark	
15.0mm x 15.0mm x	1.53mm CABGA-196	□ Back Mark	
15.0mm x 15.0mm x	1.68mm CABGA-196	Date Code	als used is traceable through
Refer to Attachment II for the af	fected part numbers		als used is traceable through bly Lot#
Date Effective: 2-Aug-2017			•
Contact: IDT PCN DESK		Attachment:	Tes 🗌 No
E-mail: pcndesk@idt.com		Samples: Please contact y sample request	our local sales representative for & availability.
DESCRIPTION AND PURPOSE OF CH	IANGE:		
Die Technology			ne mold conpound material and
Wafer Fabrication ProcessAssembly Process	solder paste material w	ill be changed to GE100RI	FC32 and SnSb respectively.
□ Equipment			om MSL 4 to MSL 3 for 15.0mm x
Material	15.0mm x 1.53mm CA	BGA-196. No change in N	ISL rating for the other packages.
TestingManufacturing Site	Attachment I details th	e qualification data for this	change and
□ Data Sheet	Attachment II shows the	e affected list of part numb	bers.
Other - MSL Rating			
RELIABILITY/QUALIFICATION SUM	IMARY:		
Refer to qualification data shown in attach	ment I.		
CUSTOMER ACKNOWLEDGMENT	OF RECEIPT:		
IDT records indicate that you require writt			
to grant approval or request additional info		receive acknowledgement	within 30 days of this notice
it will be assumed that this change is accept IDT reserves the right to ship either version		process change effective da	ate until the inventory
on the earlier version has been depleted.		6	, , , , , , , , , , , , , , , , , , ,
Customer:	C	Approval for ship	nents prior to effective date.
Name/Date:	E	Mail Address:	
Title:	P	none# /Fax# :	
CUSTOMER COMMENTS:			
IDT ACKNOWLEDGMENT OF RECE	IPT:		
RECD. BY:		DATE	
		DATE:	



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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 conpound 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	То
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 To: MSL 3 Moisture Sensitive Label





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



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ATTACHMENT I - PCN # : A1702-01

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 R	esults (S	5 / Rej)
Test Description	Test Method	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	