

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: TB1711-03 DATE: Dec	cember 7, 2017	MEANS OF DISTING	GUISHING CHA	ANGED DEVICES:	
Product Affected: WLCSP-40, 52, 54		Product Mark	مامينامهما بمم	atad an Daal Dirra	
(Refer to Attachment II for	r affected part#)	Back Mark		isted on Reel, Pizza	
		□ Date Code		on box on shipment	
Date Effective: March 7, 2018		■ Other	using new co	ver tape	
Contact: IDT PCN DESK		Attachment:	Yes	No	
E-mail: pcndesk@idt.com		Samples: N/A	4		
DESCRIPTION AND DUDDOSE OF CHANA	CE.				
DESCRIPTION AND PURPOSE OF CHAN	GE:				
	is notification is t	o advise our customers	that IDT will co	onvert from adhesive/	
Assembly Process pre	essure sealing type	e cover tape 3M 2668 to	o Epak heat seali	ing type cover tape eH52-	
9.3 9.3				of cover tape sticks on the	
□ Material SN	IT equipment feed	der. This change is mad	le as part of qual	ity improvement.	
T Testing	(1	·····			
Au Au	tachment I - Addi tachment II - Affe	tional information on n	ew cover tape		
		w cover tape technical of	lata sheet		
Other - Packaging		weover tape teeninear	data sheet		
RELIABILITY/QUALIFICATION SUMMARY: New cover tape passed internal qualification requirements. CUSTOMER ACKNOWLEDGMENT OF RECEIPT:					
IDT records indicate that you require written no to grant approval or request additional informati it will be assumed that this change is acceptable IDT reserves the right to ship either version man on the earlier version has been depleted.	otification of this c ion. If IDT does n e.	ot receive acknowledge	ement within 30	days of this notice	
Customer:	_ □	Approval for sl	hipments prio	or to effective date.	
Name/Date:	E-1	Mail Address:			
Title:	Ph	one# /Fax# :			
CUSTOMER COMMENTS:					
IDT ACKNOWLEDGMENT OF RECEIPT:					
RECD. BY:		DATE:			
				—	



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ATTACHMENT I - PCN #: TB1711-03

PCN Type: Packaging

No

Data Sheet Change:

Detail of Change: This notification is to advise our customers that IDT will convert from adhesive/ pressure sealing type cover tape 3M 2668 to Epak heat sealing type cover tape eH52-9.30-300-YB1. The new cover tape will eliminate the risk of cover tape sticks on the SMT equipment feeder. This change is made as part of quality improvement.

The new cover tape has passed the internal qualification requirements. Refer to Table 1 for the qualification results.

Customers may expect to receive shipments with new cover tape no sooner than 90 days from the date of this notification. Product with old cover tape and the new cover tape will be shipped during the transition period until the old cover tape inventory has been depleted. And products shipped during the transition period using new cover tape will have a special label pasted onto each reel, pizza box and outer carton.

Qualification Results:

Table 1: Internal Qualification Results

Check Item	Requirement	E- <u>pak</u> eH52 (Heat Seal Type)	Result
Sealing Quality	No damage & delamination	No abnormality	Pass
Peeling Quality	No damage & delamination	No abnormality	Pass
Peel Strength Test	Heat Seal Type : 35 ~ 90g	<u>Heat Seal Type : 35 ~ 90g</u> Min : 36.7g / Max : 50.0g	Pass
Bending & Twist Test	No damage & delamination	No abnormality	Pass
ESD Check	E- <u>pak</u> : 1x10 ⁴ ~ 1x10 ¹⁰ ohms	Within $1 \times 10^4 \sim 1 \times 10^{10}$ ohms	Pass

Qual vehicle: WLCSP-54



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Sealing & Peeling Quality : Pass



Peel Strength Test : Pass

- ✓ Result(gram) Spec
 - Heat Seal Type: 35 ~ 90g

6	E-p	Dece/Ee			
Sample	Min Max		Range (Max-Min)	Pass/Fail	
1	39.0	49.5	10.5	Pass	
2	39.2	49.0	9.8	Pass	
3	39.2	48.2	9	Pass	
4	38.6	47.7	9.1	Pass	
5	38.6	46.2	7.6	Pass	
6	37.6	45.9	8.3	Pass	
7	36.7	48.5	11.8	Pass	
8	36.9	45.1	8.2	Pass	
9	37.2	44.9	7.7	Pass	
10	38.4	49.7	11.3	Pass	
Average	38.14	47.47	9.33	Pass	





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Bending & Twist Test : Pass

 \checkmark Based on the visual inspection Image, new cover tape does not delaminate from the carrier tape.

*Test Procedure : Twist and bend the cover tape at 10 times like below (S/S : 5samples)



[Twist Test]

[Bending Test]

✓ Visual Inspection Image



Result

Item	Description.	Measuring Instrument	Spec.	1	2	3	4	5
SR	Surface Resistivity (Ohms/sq)	SRM-110	1.0x10^5~1.0x10^11	1.0x10^10	1.0x10^10	1.0x10^9	1.0x10'9	1.0x10^10
31	Surface Resistance (Ohms)	PRS-801	1.0x10^4~1.0x10^10	4.8x10'9	1.1x10^9	3.5x10^9	5.6x10/9	6.1x10^9
	RESULTS ACC ACC ACC ACC					ACC		
The measure condition require: 23±2°C 60±5%								

✓ Vendor : EPAK

✓ Cover tape : eH52-9.30-300-YB1

 \checkmark Criteria : 1x10⁴ ~ 1x10¹⁰ ohms

✓ Result : Passed



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN #: TB1711-03

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
P9220-0AHGI8	P9221-2AHGI8	P9221-RAHGI8	P9222-1AZGI8
P9220B-0AHGI8	P9221-4AHGI8	P9221-RP1AHGI8	P9223-1AHGI8
P9220-BAHGI8	P9221-6AHGI8	P9221S-0AHGI8	P9223-DAHGI8
P9220-RAHGI8	P9221-9AHGI8	P9221S-2AHGI8	P9225-R0AHGI8
P9220S-0AHGI8	P9221-R0AHGI8	P9221S-4AHGI8	P9270-0AZGI8
P9221-0AHGI8	P9221-R1AHGI8	P9222-0AZGI8	P9320S-1AHGI8



e.PAK COVER TAPE TECHNICAL DATA SHEET

Material Code:	YB1			
Description:	YB1 is transparent polyester film and coated with antistatic heat activated type adhesives. Available in variety of widths to accommodate any application.			
Composition:	Polyester f	ïlm with antista	tic heat	activated type adhesive
MECHANICAL	ASTM AVERAGE VALUE			RAGE VALUE
Material thickness	JIS	Z 0237 1991	0.05	52±0.005mm
Tensile Strength			>1	.7Kg/10mm
Elongation			>7	5%
ELECTRICAL				
Surface Resistivity		D-257	1x10 ⁴	⁴ ~ 1x10 ¹⁰ ohms
The measure cond	ition require:	: 23±2°C	60±59	%
TRANSMISSIBLE				
Luminous Transmit	tance	D-1003	89.7	±5%
Haze		D-1003	25±\$	5%

• Values presented are typical laboratory data.