

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: TB1405-01 DATE: July Product Affected: TQFP-44, TQFP-64 shipped in Tape & Reel	7, 2014 MEANS OF DISTINGUISHING CHANGED DEVICES:
(Refer to Attachment II for Date Effective: October 7, 2014 Contact: IDT PCN DESK E-mail: pcndesk@idt.com	☐ Product Mark ☐ Back Mark
 □ Wafer Fabrication Process □ Assembly Process □ Equipment □ Material □ Testing □ Manufacturing Site 	s notification is to advise our customers that IDT has planned to convert to a new sion of the carrier tape and to standardize the quantity per reel. new carrier tape has changes in pocket design and dimensions. schment I - Additional information on the changes. schment II - Affected part list schment III - Carrier Tape Drawings
RELIABILITY/QUALIFICATION SUMMAR New carrier tape passed IDT internal qualification	RY: n requirements and complies with EIA-481-D standard.
to grant approval or request additional information it will be assumed that this change is acceptable.	CCEIPT: ification of this change. Please use the acknowledgement below or E-Mail on. If IDT does not receive acknowledgement within 30 days of this notice ufactured after the process change effective date until the inventory
IDT records indicate that you require written not to grant approval or request additional informatic it will be assumed that this change is acceptable. IDT reserves the right to ship either version man	ification of this change. Please use the acknowledgement below or E-Mail on. If IDT does not receive acknowledgement within 30 days of this notice
IDT records indicate that you require written not to grant approval or request additional informatic 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. Customer:	ification of this change. Please use the acknowledgement below or E-Mail on. If IDT does not receive acknowledgement within 30 days of this notice ufactured after the process change effective date until the inventory Approval for shipments prior to effective date.

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ATTACHMENT I - PCN #: TB1405-01

PCN Type: Packaging

Data Sheet Change: None

Detail of Change: This notification is to advise our customers that IDT has planned to convert to a new revision of the

carrier tape and to standardize the quantity per reel.

The new carrier tape has changes in pocket design and dimensions and complies with the requirements

of EIA-481-D standard.

The new carrier tape passed the IDT internal qualification requirements. Refer to Table 1 for the

qualification results.

Refer to Table 2, Figure 1 and 2 for the comparison of the existing and new carrier tape in terms of

carrier tape pocket dimensions and pocket designs as well as quantity per reel respectively.

In addition, the packing will be changed where every reel will be wrapped with a layer of bubble sheet

before placed into a pizza box for increased protection.

Qualification Test Plan and Result:

Table 1: IDT Internal Qualification Results

Description	Reject/Sample Size	Result
Peel Strength Test	0/5 strips	Pass
Visual/Mechanical	0/5 pockets	Pass
Surface Resistivity Test	0/5 pockets	Pass
Drop Test, 6 ft	0/1 reel	Pass
Dimensional	0/5 pockets	Pass

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Table 2: Comparison of Existing Carrier Tape and New Carrier Tape and Quantity Per Reel

Description of Changes	From	То
IDT Carrier Tape Part#	P8-300-E64	P8-460-000
IDT Carrier Tape Drawing#	MSC-4900	MSC-7396
Supplier Carrier Tape Part#	TQFP10x10x1.0-22B3- 360C-SD	TQFP10x10x1.0NGP- 22B3-360C-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	13.0 ± 0.1	12.5 ± 0.1
Pocket Length, Bo (mm)	13.0 ± 0.1	12.5 ± 0.1
Pocket Depth, Ki (mm)	1.3 ± 0.1	1.1 ± 0.05
Pocket Pitch, P1 (mm)	16.0 ± 0.1	16.0 ± 0.1
Total Pocket Depth, Ko (mm)	1.6 ± 0.1	1.4 ± 0.1
Carrier Tape Width, W (mm)	24.0 ± 0.3	24.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05
Quantity per Reel	¹ 500 & ² 2000	500

Notes:

^{1.} TQFP-44 & TQFP-64 from ICS market segment

^{2.} TQFP-64 from IDT market segment



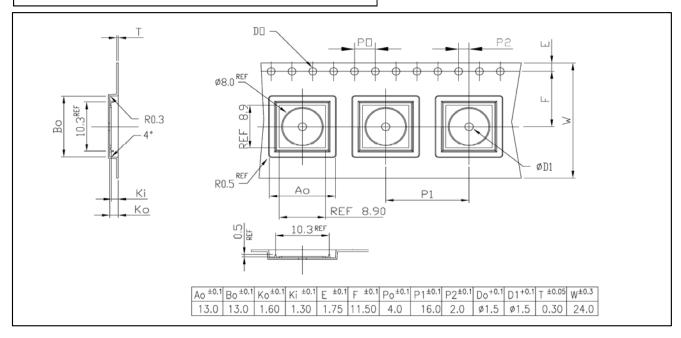
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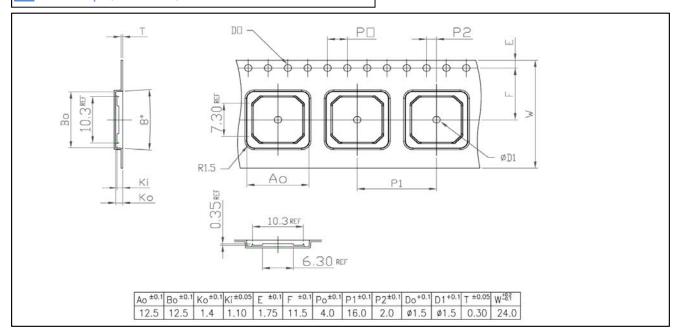
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Figure1: Illustration of Carrier Tape Pocket Dimensions

From: Carrier Tape (P8-300-E64) - Pocket Dimensions



To: Carrier Tape (P8-460-000) - Pocket Dimensions



*Note: All dimensions are in mm. Refer to the attached carrier tape drawings for more details.

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Figure2: Illustration of Carrier Tape Pocket Design

From: Carrier Tape (P8-300-E64)



To: Carrier Tape (P8-460-000)

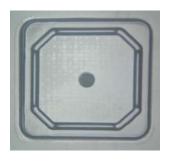


Figure 3: Illustration for Tape & Reel Packing Changes

From: Packing for Tape & Reel (Without bubble sheet)



<u>To:</u> Packing for Tape & Reel (Wrap with bubble sheet)



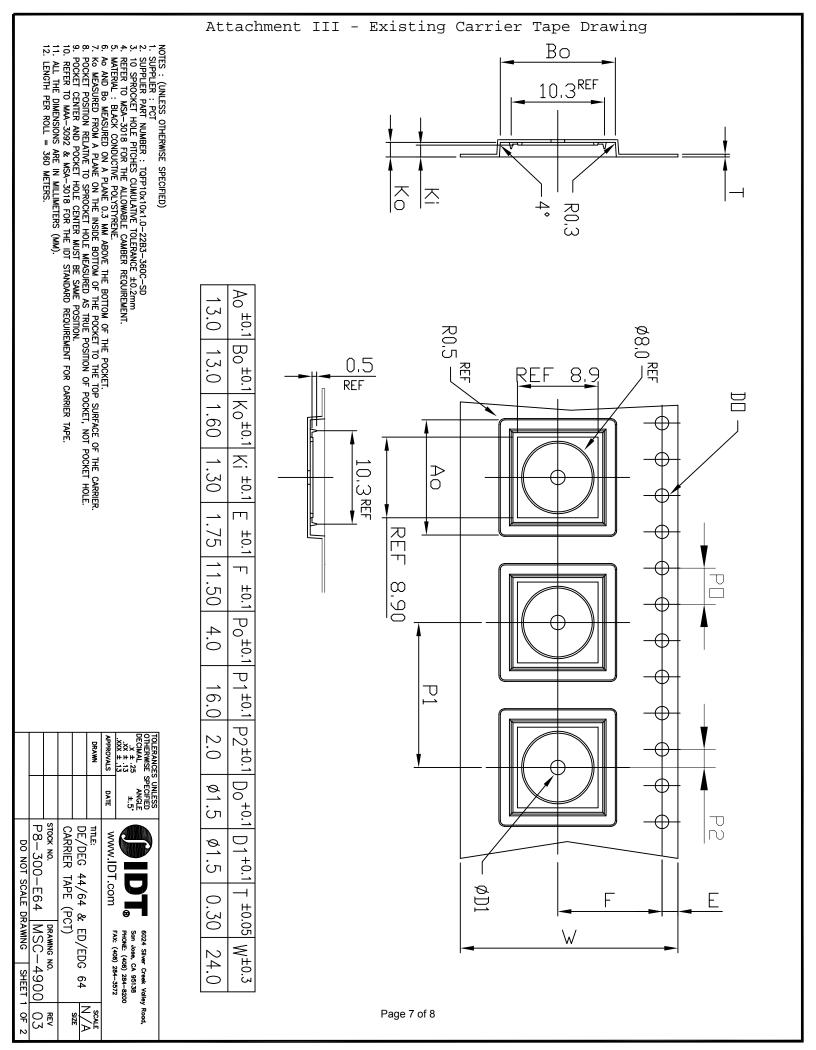
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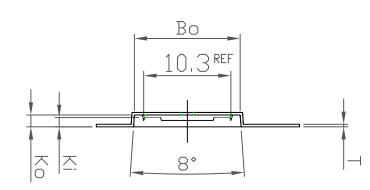
ATTACHMENT II - PCN #: TB1405-01

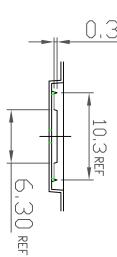
Affected Part Numbers

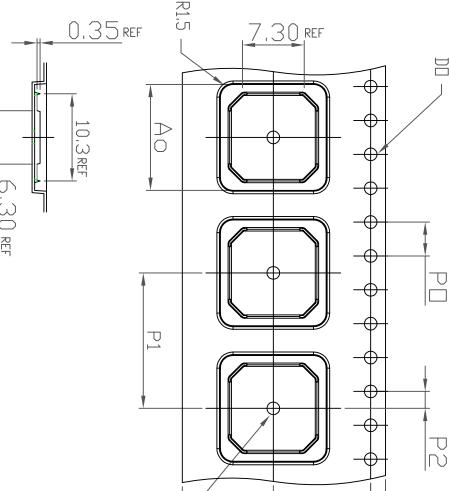
Part Number	Part Number	Part Number	Part Number
1893BYI-10LFT	813078BYILFT	841N251DY-01LFT	872S06AYLFT
1893CY-10LFT	82V3202EDG8	843002AY-32LFT	874328BYI-01LFT
1893CYI-10LFT	82V3255EDG8	851021AYLFT	8V41N351Y-01LF8
1893Y-10LFT	82V3352EDG8	8524AYLFT	V103YLFT
1893YI-10LFT	82V3355EDG8	8534AY-01LFT	V104YLFT
2008BY-10LFT	82V3358EDG8	853S024AYLFT	
813076CYILFT	841N251CY-01LFT	854S54AYI-08LFT	



Attachment III - New Carrier Tape Drawing







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ALL THE DIMENSIONS LENGTH PER ROLL =

ARE IN MILLIMETERS (MM). 360 METERS.

SUPPLIER PART NUMBER: TQFP10x10x1.0NGP-22B3-360C-SD
10 SRPOCKET HOLE PITCHES CUMULATIVE TOLERANCE ±0.2mm.
10 SRPOCKET HOLE PITCHES CUMULATIVE TOLERANCE ±0.2mm.
REFER TO MSA-3018 FOR THE ALLOWABLE CAMBER REQUIREMENT.
MATERIAL: BLACK CONDUCTIVE POLYSTYRENE.
MATERIAL: BLACK CONDUCTIVE POLYSTYRENE.
MA AND BO MEASURED ON A PLANE 0.3 MM ABOVE THE BOTTOM OF THE POCKET TO THE TOP SURFACE OF THE CARRIER.
MAD BO MEASURED ON THE INSIDE BOTTOM OF THE POCKET TO THE TOP SURFACE OF THE CARRIER.
POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED AS TRUE POSITION OF POCKET, NOT POCKET HOLE.
POCKET CENTER AND POCKET HOLE CENTER MUST BE SAME POSITION.
REFER TO MAA-3092 & MSA-3018 FOR THE IDT STANDARD REQUIREMENT FOR CARRIER TAPE.

APPROVALS DRAWN STOCK NO. P8-460-000 DE/DEG 44/64 & ED/EDG 64 CARRIER TAPE (PCT) 111 DO NOT SCALE DRAWING MSC-7 7396 SHEET 유 8

UNLESS PECIFIED ANGLE ±.5° DATE www.IDT.com San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 6024 Silver Creek Valley Road,

TOLERANCES U
OTHERWISE SPE
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.XXX ± .13