



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: TB1303-01 DATE: April 1, 2013 Product Affected: TQFP-32, TQFP-48 shipped in Tape & Reel (Refer to Attachment II for affected part#) Date Effective: July 1, 2013	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code Shipment starting from July 1, 2013. <input checked="" type="checkbox"/> Other
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Contact: IDT PCN DESK E-mail: pcndesk@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: N/A
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other - Packaging	<p>This notification is to advise our customers that IDT has qualified a new revision of a carrier tape for packages TQFP-32 and TQFP-48.</p> <p>The new carrier tape has changes in pocket dimensions and design that enhances pick and place function during board mount process.</p> <p>Attachment I - Additional information on new carrier tape Attachment II - Affected part list Attachment III - Existing and New Carrier Tape Drawings</p>
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RELIABILITY/QUALIFICATION SUMMARY:

New carrier tape passed IDT internal qualification requirements and complies with EIA-481-D standard.

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: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN #: TB1303-01

PCN Type: Packaging

Data Sheet Change: None

Detail of Change: This notification is to advise our customers that IDT has qualified a new revision of a carrier tape for packages TQFP-32 and TQFP-48.

The new carrier tape has changes in pocket dimensions and design that enhances pick and place function during board mount process. The new carrier tape is designed with increased pocket depth from 1.3mm to 1.55mm, which will avoid unit protruded above the top surface of the carrier tape.

The new carrier tape complies with the requirement 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 for the comparison of the existing and new carrier tape.

Qualification Test Plan and Result:

Qual plan#: BC13-01-01

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 Existing Carrier Tape and New Carrier Tape

Description	Existing Carrier Tape (part#: P8-159-P32)	New Carrier Tape (part#: P8-422-000)
Pocket Width, Ao (mm)	9.8 ± 0.1	9.5 ± 0.1
Pocket Length, Bo (mm)	9.8 ± 0.1	9.5 ± 0.1
Pocket Depth, Ki (mm)	1.3 ± 0.1	1.55 ± 0.10
Pocket Pitch, P1 (mm)	12.0 ± 0.1	12.0 ± 0.1
Total Pocket Depth, Ko (mm)	1.8 ± 0.1	2.0 ± 0.1
Carrier Tape Width, W (mm)	16.0 ± 0.3	16.0 ± 0.3
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



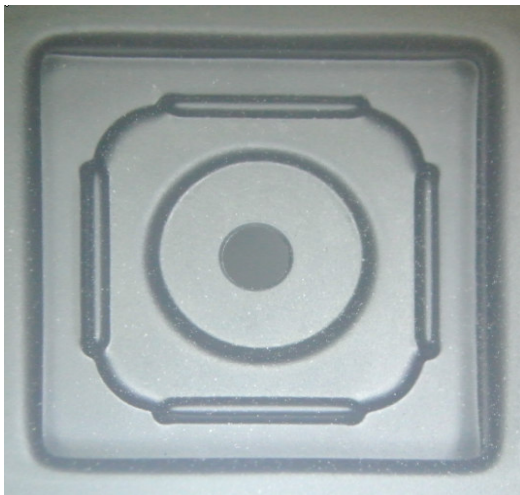
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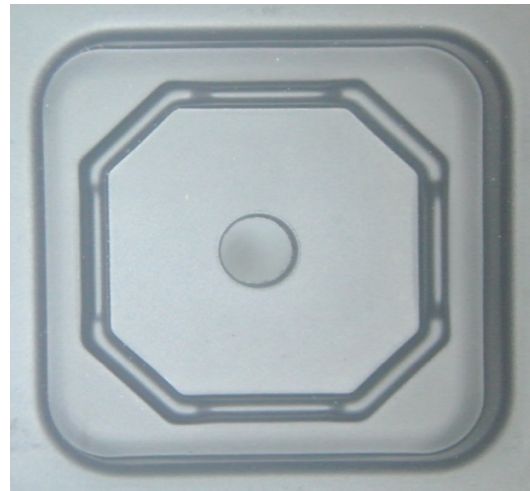
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Figure1: Illustration on Existing Carrier Tape and New Carrier Tape

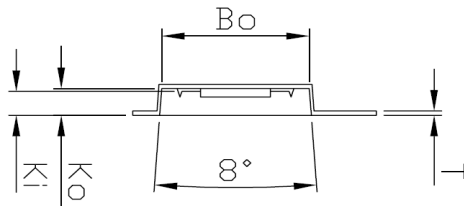
Existing Carrier Tape-
Pocket Design



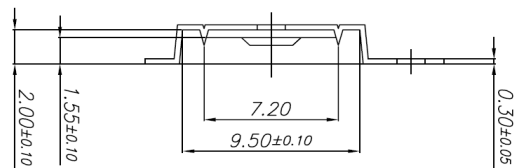
New Carrier Tape-
Pocket Design



Existing Carrier Tape-
Pocket Dimension



New Carrier Tape-
Pocket Dimension



A ₀ ±0.1	B ₀ ±0.1	K ₀ ±0.1	K _i ±0.1	E ±0.1	F ±0.1	P ₀ ±0.1	P ₁ ±0.1	P ₂ ±0.1	D ₀ +0.1	D ₁ +0.1	T ±0.05	W ±0.3
9.8	9.8	1.8	1.3	1.75	7.5	4.0	12.0	2.0	∅1.5	∅1.5	0.30	16.0

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



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Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
5T93GL061PFGI8	72201L10PFG8	72V201L15PFG8	8343AYI-01T
5T93GL061PFI8	72201L15PFG8	72V201L15PFGI8	8344AY-01LFT
5T9950APFGI8	72201L25PFG8	72V211L10PFG8	8344AY-01T
5T9950PFGI8	72211L10PFG8	72V211L15PFG8	8344AYI-01LFT
5V49EE910PFGI8	72211L10PFGI8	72V211L15PFGI8	8344BYILFT
5V9351PFGI8	72211L15PFG8	72V211L20PFG8	8344BYIT
5V9351PFI8	72211L15PFGI8	72V221L10PF8	8344BYLFT
5V9352PFGI8	72211L25PFG8	72V221L10PFG8	8344BYT
5V9352PFI8	72211L25PFGI8	72V221L10PFGI8	83918AYILFT
5V9885B-015PFGI8	72221L10PF8	72V221L15PF8	83918AYIT
5V9885C-023PFGI8	72221L15PF8	72V221L15PFG8	83940AY-02LFT
5V9885CPFGI8	72221L15PFGI8	72V221L15PFGI8	83940AY-02T
5V9885PFGI8	72221L15PFI8	72V221L15PFI8	83940AYI-02LFT
5V9885PFI8	72221L25PF8	72V221L20PF8	83940BYLFT
5V9885T-001PFGI8	72221L25PFI8	72V231L10PF8	83940BYT
5V9885T-003PFGI8	72231L10PF8	72V231L10PFG8	83940DY-01LFT
5V9885T-005PFGI8	72231L10PFG8	72V231L10PFGI8	83940DY-01T
5V9885T-008PFGI8	72231L15PF8	72V231L10PFI8	83940DYI-01LFT
5V9885T-009PFGI8	72231L15PFGI8	72V231L15PF8	83940DYILFT
5V9885T-010PFGI8	72231L15PFI8	72V231L15PFG8	83940DYIT
5V9885T-011PFGI8	72231L25PF8	72V231L15PFGI8	83940DYIT-INO
5V9885T-014PFGI8	72231L25PFI8	72V231L15PFI8	83940DYLFT
5V9885T-015PFGI8	72241L10PF8	72V231L20PF8	83940DYT
5V9885T-024PFGI8	72241L10PFG8	72V231L20PFG8	83940DYT-IB0
5V9885TPFGI8	72241L15PF8	72V231L20PFGI8	83940LYIT
5V9888-002PFGI8	72241L15PFG8	72V231L25PFI8	83947AYI-147LFT
5V9888B-012PFGI8	72241L15PFI8	72V241L10PFG8	83947AYI-147T
5V9888PFGI8	72241L25PF8	72V241L15PFG8	83947AYILNT
5V9888T-001PFGI8	72241L25PFI8	72V251L10PF8	83947AYIT
5V9888T-003PFGI8	72251L10PF8	72V251L10PFG8	83947AYIT-IB0
5V9888T-008PFGI8	72251L10PFG8	72V251L15PF8	83948AYI-01LFT
5V9888T-009PFGI8	72251L15PF8	72V251L15PFG8	83948AYI-01T
5V9888T-011PFGI8	72251L15PFGI8	72V251L15PFGI8	83948AYI-147LFT
5V9888T-012PFGI8	72251L15PFI8	72V251L15PFI8	83948AYI-147T
5V9888T-014PFGI8	72251L25PF8	72V251L20PF8	83948AYILFT
5V9888T-015PFGI8	72251L25PFI8	72V251L20PFG8	83948AYIT
5V9888T-021PFGI8	72421L10PF8	8312AYILFT	839893AYIT
5V9888T-024PFGI8	72421L15PF8	8312AYIT	84021AYLFT
5V9888TPFGI8	72421L25PF8	8312AYLFT	84021AYT
5V994PFGI8	72421L25PFI8	8312AYT	84021BYLFT
5V994PFI8	72V12081L15PFI8	8343AY-01LFT	8402AYILFT
5V9950PFGI8	72V13081L15PFI8	8343AY-01T	8402AYIT
5V9950PFI8	72V201L10PFG8	8343AYI-01LFT	8402AYLFT



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Part Number	Part Number	Part Number	Part Number
8402AYT	84320AY-01LNT	8442AYT	8531AY-01T-IB0
8427DY-02LFT	84320AY-01T	8501BYLFT	853210AYLFT
8427DY-02T	84320AYI-01LFT	8501BYT	853210AYT
8430002AYLFT	84320AYI-01T	8501BYT-IB0	853210BYT
843020AY-01LFT	84321AYILFT	851010AYLFT	8537AY-01LFT
843020AY-01T	84321AYIT	8516FYILFT	8537AY-01T
843034AY-01LFT	84321AYLFT	8516FYIT	853S031BYILFT
843034AY-01T	84321AYT	8516FYLFT	853S111AYILFT
843034AY-04LFT	84329BYLFT	8516FYT	853S202AYIT
843034AY-06LFT	84329BYT	8520DYLFT	854110AYILFT
843034AY-06T	8432BY-51LFT	8520DYT	854210CYLFT
843034AYLFT	8432BY-51T	85210AY-21T	854210CYT
843034AYT	8432BYI-51LFT	85210AY-31LFT	8547AYT
843034BY-02LFT	8432BYI-51T	85210AY-31T	854S202AYILFT
843034EY-06LFT	8432CY-111LFT	8521AYI-03LNT	854S202AYIT
843034EY-08LFT	8432CY-111T	8521AYI-03LNT-IB0	8602BYLFT
8430AY-61LFT	8432CY-11LFT	8521AYI-03T	8602BYT
8430AY-61T	8432CY-11T	8521AYI-03T-IB0	8624BYILFT
8430AY-62LFT	8432CY-51LFT	8521BYILFT	8624BYIT
8430AY-62T	8432CYI-51LFT	8521BYIT	8624BYLFT
8430AY-71T	8432DY-101LFT	8521BYLFT	8624BYT
8430AYI-61LFT	8432DY-101T	8521BYLNT	8634BY-01LFT
8430AYI-71T	8432DYI-101LFT	8521BYT	8634BY-01T
8430BY-71LFT	8432DYI-101T	8521BYT-IB0	86953BYI-147T
8430BY-71T	84330AY-03LFT	853031AYT	86953BYI-20T
8430BYI-71LFT	84330AY-03T	8530DY-01LFT	86953BYIT
8430DY-111LFT	84330BY-03LFT	8530DY-01LFT-ARS	86962CYI-01T
8430DY-111T	84330BYLFT	8530DY-01T	87016AYILFT
8430EY-01LFT	84330BYLFT-IB0	8530DYLF/W	87016AYIT
8430EY-01T	84330BYLNT	8530DYLFT	87016AYLF/W
8430EY-11LFT	84330BYLNT-IB0	8530DYT	87016AYLFT
8430EY-11T	84330BYT	8530FY-01LFT	87016AYT
84314AY-01T	84330BYT-IB0	85310AYI-01LFT	8701AY-01LFT
84314AY-02LFT	84330CYILFT	85310AYI-01T	8701AY-01T
84314AY-02T	84330CYIT	85310AYI-11LFT	8701CY-20T
84314AYLFT	84330CYLNT	85310AYI-11T	8701CYILFT
84314AYT	84330CYT	85310AYI-21LNT	8701CYIT
843202AYILFT	843S2807DYLFT	85310AYI-21T	8701CYLFT
843207AY-350T	843S2807DYT	85310AYI-31T	8701CYT
843207BY-350LFT	844008BYI-15LFT	853111AYLFT	8702BYLFT
843207BY-350T	8442AYILFT	853111AYT	8702BYT
843207CY-350LFT	8442AYIT	8531AY-01LFT	8702BYT-CQ0
843207CY-350T	8442AYLFT	8531AY-01T	8705BYI-01LFT



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Part Number	Part Number	Part Number	Part Number
8705BYILFT	87946AYIT	92HDW74C15PRGXB2X8	MPC930FAR2
8705BYIT	87949AYI-01T	92HDW74C15PRGXC1X8	MPC9315ACR2
8705BYLFT	87950BYILFT	92HDW74C25PRGXB2X8	MPC9315FAR2
8705BYT	87950BYIT	92HDW74C25PRGXC1X8	MPC9330ACR2
8705BYT-INO	87951AYI-147LFT	92HDW74D15PRGXB2X8	MPC9330FAR2
8725AY-01LFT	87951AYILFT	92HDW74D15PRGXC1X8	MPC9331ACR2
8725AY-01T	87951AYIT	92HDW74E15PRGXB2X8	MPC9331FAR2
8725AYI-01LFT	87952AYI-147LFT	92HDW74E15PRGXC1X8	MPC9350ACR2
8725AYI-01T	87952AYI-147T	932S803AYLFT	MPC9350FA/W
8725AYI-01T-TLB	879893AYILFT	KDI100YT	MPC9350FAR2
8725AYI-01T-TLBS	879893AYIT	LCK4516FYT	MPC9350FAR2/W
8725BY-01LFT	87993AYILFT	LCK4547AYT	MPC9351ACR2
8725BY-01T	87993AYIT	MC100ES6111AC/W	MPC9351FAR2
8731CY-01LFT	9281BYLFT	MC100ES6111ACR2	MPC9352ACR2
8731CY-01T	92HD202XX5PRGXA6X8	MC100ES6111FAR2	MPC9352FAR2
8733BY-01LFT	92HD206DX5PRGXB4X8	MC100ES6210ACR2	MPC93H51ACR2
8735AY-01LFT	92HD206XX5PRGXB4X8	MC100ES6210FAR2	MPC93H51FAR2
8735AY-01T	92HD68E3X5PRGXZAX8	MC100ES6226ACR2	MPC93H52ACR2
8735AY-31LFT	92HD700DX5PRGXB4X8	MC100ES6226FAR2	MPC93H52FAR2
8735AY-31T	92HD700XX5PRGXB4X8	MC100ES6254ACR2	MPC93R51ACR2
8735AYI-01LFT	92HD71B5X3PRGXB3X8	MC100ES6254FAR2	MPC93R51FAR2
8735AYI-01T	92HD71B5X5PRGXB3X8	MC100ES8111ACR2	MPC93R52ACR2
8745BYILFT	92HD71B7X3PRGXB3X8	MC100ES8111FAR2	MPC93R52FAR2
8745BYIT	92HD71B7X5PRGXB3X8	MC12429FAR2	MPC940LACR2
8745BYLFT	92HD71B8X3PRGXB3X8	MC12430FAR2	MPC940LFA/W
8745BYT	92HD71B8X5PRGXB3X8	MPC9109ACR2	MPC940LFAR2
8752CYILFT	92HD73C1T5PRGIC1X8	MPC9109FAR2	MPC940LFAR2/W
8752CYIT	92HD73C1X5PRGXB2X8	MPC9229ACR2	MPC941AER2
8752CYLFT	92HD73C1X5PRGXC1X8	MPC9229FAR2	MPC941FAR2
8752CYT	92HD73D1T5PRGIC1X8	MPC9230ACR2	MPC942CACR2
8752DYIT	92HD73D1X5PRGXB2X8	MPC9230FAR2	MPC942CFAR2
87608AYILFT	92HD73D1X5PRGXC1X8	MPC9239ACR2	MPC942PACR2
87608AYILFT-IB0	92HD73E1T5PRGIC1X8	MPC9239FAR2	MPC942PFAR2
87608AYIT	92HD73E1X5PRGXB2X8	MPC92429ACR2	MPC9443AER2
87931AYI-147LFT	92HD73E1X5PRGXC1X8	MPC92429FAR2	MPC9443FAR2
87931AYI-147T	92HD89B3X5PRGXZBX8	MPC92432AER2	MPC9446ACR2
87931BYILFT	92HD89C3X5PRGXZBX8	MPC92432FAR2	MPC9446FAR2
87931BYIT	92HD89D3X5PRGXZB18	MPC92433AER2	MPC9447ACR2
87946AYI-01LFT	92HD89D3X5PRGXZB28	MPC92433FAR2	MPC9447FAR2
87946AYI-01T	92HD89D3X5PRGXZB38	MPC92439ACR2	MPC9448ACR2
87946AYI-147LFT	92HD89D3X5PRGXZBX8	MPC92439FAR2	MPC9448FAR2
87946AYI-147T	92HD89E3X5PRGXZBX8	MPC92469ACR2	MPC9456ACR2
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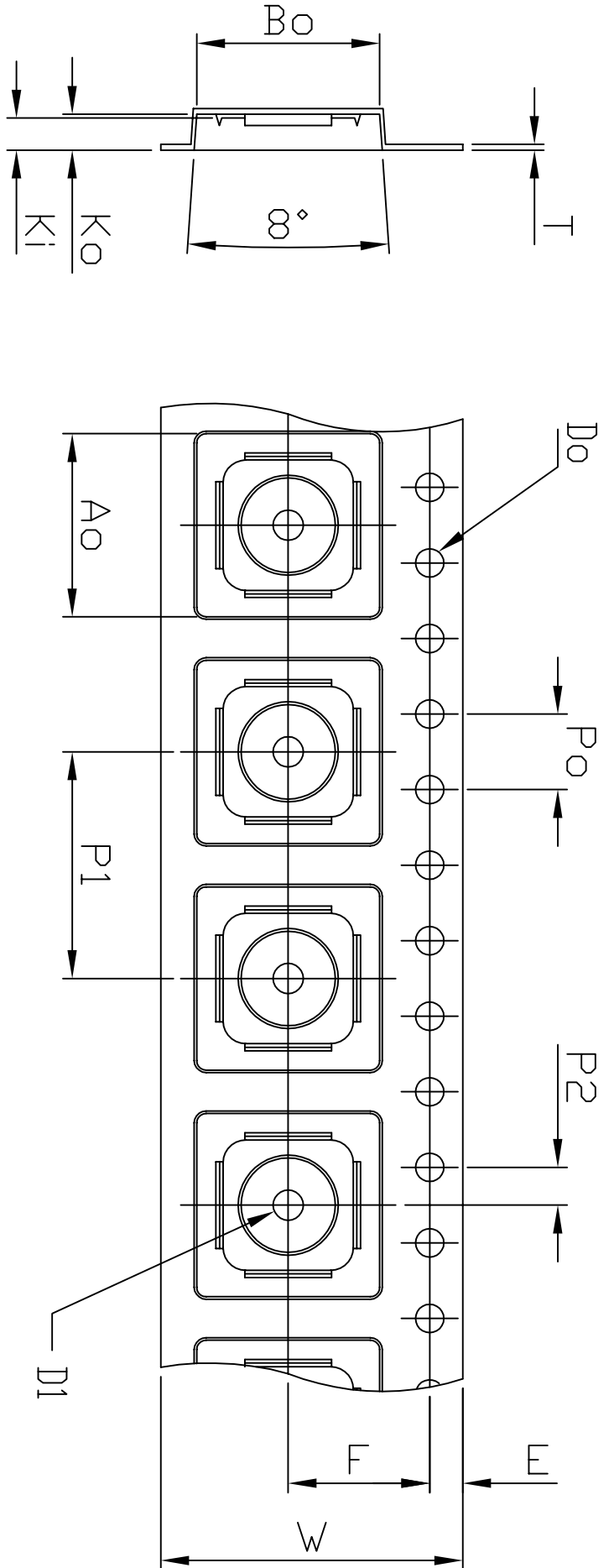
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Part Number	Part Number	Part Number	Part Number
MPC9600AER2	MPC9824FAR2	STAC9204X3TAEB2XR	STAC9228X5TAEA2XR
MPC9600FAR2	MPC9893AER2	STAC9204X5TAEB2XR	STAC9228X5TAEB4XR
MPC9608ACR2	MPC9893FAR2	STAC9205X3TAEB2XR	STAC9271D5TAEA2XR
MPC9608FAR2	MPC9992ACR2	STAC9205X5TAEB2XR	STAC9271D5TAEB4XR
MPC961CACR2	MPC9992FAR2	STAC9220X3TAEA6XR	STAC9271X5TAEB4XR
MPC961CFAR2	MPC9993ACR2	STAC9220X5TAEA6XR	STAC9274D5TAEB4XR
MPC961PACR2	MPC9993FAR2	STAC9221X5TAEA6XR	STAC9274X5TAEB4XR
MPC961PFAR2	MPC99J93ACR2	STAC9227X3TAEA2XR	STAC9750XXTAEC1XR
MPC9653AAC/W	MPC99J93FAR2	STAC9227X3TAEB4XR	STAC9751XXTAEC1XR
MPC9653AACR2	SC9990FAR2	STAC9227X5TAEA2XR	STAC9752AXTAED1XR
MPC9653AACR2/W	ST119220X5TAEA4XR	STAC9227X5TAEB4XR	STAC9752XXTAEB2XR
MPC9653AFAR2	ST119220X5TAEA6XR	STAC9228D3TAEA2XR	STAC9753AXTAED1XR
MPC9653AFAR2/M	STAC9200X3TAEB1XR	STAC9228D3TAEB4XR	STAC9758XXTAEB1XR
MPC9658ACR2	STAC9200X5TAEB1XR	STAC9228D5TAEB4XR	STAC9766XXTAEC1XR
MPC9658FAR2	STAC9202X3TAEA1XR	STAC9228X3TAEA2XR	STAC9767XXTAEC1XR
MPC9824ACR2	STAC9202X5TAEA1XR	STAC9228X3TAEB4XR	



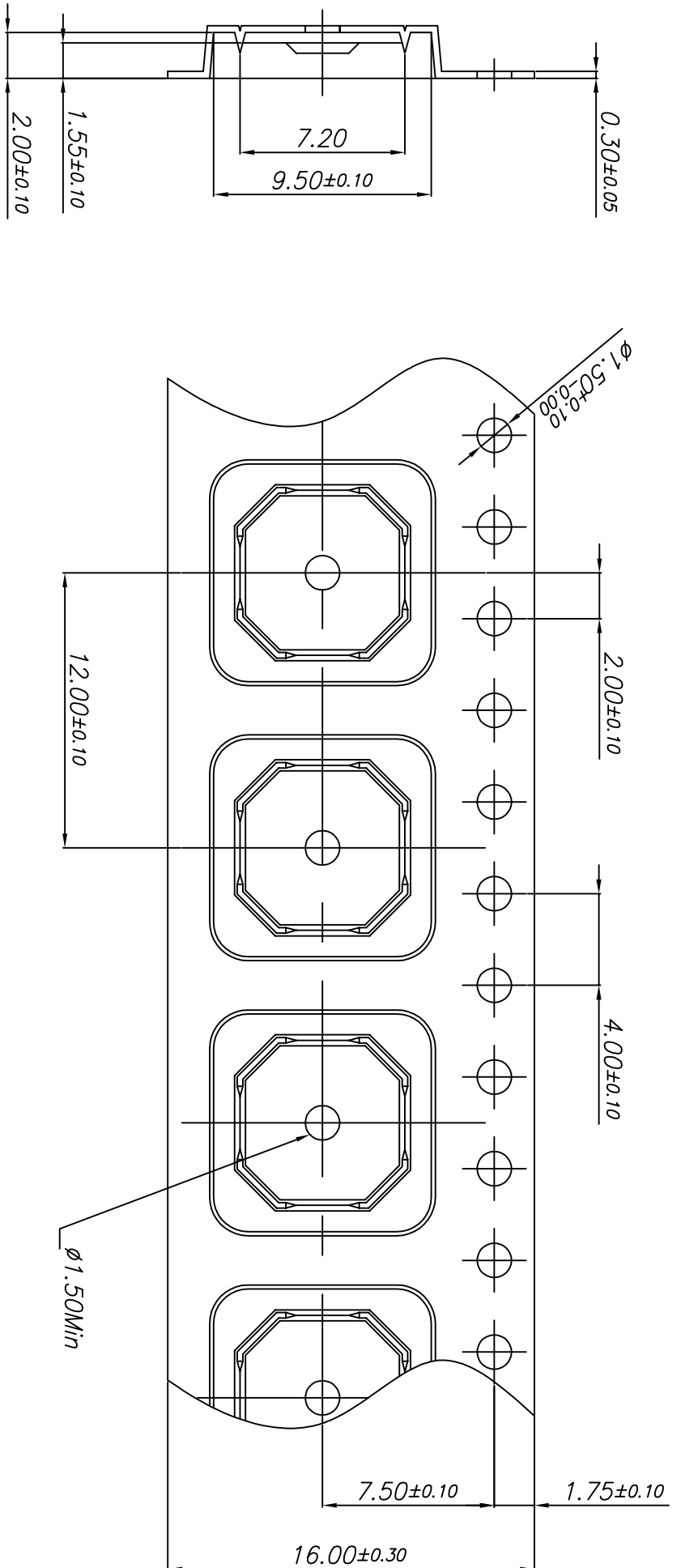
A0 ±0.1	B0 ±0.1	K0 ±0.1	Ki ±0.1	E ±0.1	F ±0.1	P0 ±0.1	P1 ±0.1	P2 ±0.1	D0 +0.1	D1 +0.1	T ±0.05	W ±0.3
9.8	9.8	1.8	1.3	1.75	7.5	4.0	12.0	2.0	ø1.5	ø1.5	0.30	16.0

NOTES : (UNLESS OTHERWISE SPECIFIED)

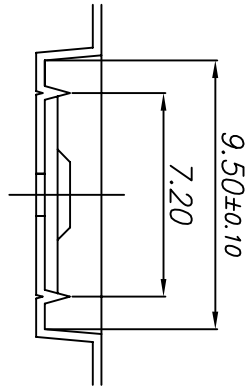
1. SUPPLIER : PCT
2. SUPPLIER PART NUMBER : PR32/48-22B3-80C-SD
3. 10 SPROCKET HOLE PITCHES CUMULATIVE TOLERANCE ±0.2mm
4. REFER TO MSA-3018 FOR THE ALLOWABLE CAMBER REQUIREMENT.
5. MATERIAL : BLACK CONDUCTIVE POLYSTYRENE.
6. A0 AND B0 MEASURED ON A PLANE 0.3 MM ABOVE THE BOTTOM OF THE POCKET.
7. K0 MEASURED FROM A PLANE ON THE INSIDE BOTTOM OF THE POCKET TO THE TOP SURFACE OF THE CARRIER.
8. POCKET POSITION RELATIVE TO SPROCKET HOLE CENTER MUST BE SAME POSITION.
9. POCKET CENTER AND POCKET HOLE CENTER MUST BE SAME POSITION.
10. REFER TO MAA-3092 & MSA-3018 FOR THE IDT STANDARD REQUIREMENT FOR CARRIER TAPE.
11. ALL THE DIMENSIONS ARE IN MILLIMETERS (MM).
12. LENGTH PER ROLL = 80 METERS.
13. APPLICABLE TO :


- i) ES/ESG 48 PRODUCTS.
- ii) IDT, SIGMATEL AND FRE MARKET SEGMENT'S PR/PRG 32/48 PRODUCTS.
- iii) ICS MARKET SEGMENT'S PR/PRG 32/48 PRODUCTS EXCEPT PRODUCT WITH SOD 1033.

TOLERANCES UNLESS OTHERWISE SPECIFIED		ANGLE ±.5°	
DECIMAL	X ± .25		
.XX ± .13			
.XXX ± .13			
APPROVALS	DATE	WWW.IDT.COM	
DRAWN		TITLE: ES/ESG 48 & PR/PRG 32/48 CARRIER TAPE (PCT)	
STOCK NO. P8-159-P32		DRAWING NO. MSC-3378	
DO NOT SCALE DRAWING		REV 03	
		SCALE N/A	
		SIZE	
		REV	
		SHEET 1 OF 2	



- NOTES : (UNLESS OTHERWISE SPECIFIED)
1. SUPPLIER : KOSTAT
 2. SUPPLIER PART NUMBER : KS-1612-468
 3. 10 SPROCKET HOLE PITCHES CUMULATIVE TOLERANCE ±0.2mm
 4. REFER TO MSA-3018 FOR THE ALLOWABLE CAMBER REQUIREMENT.
 5. MATERIAL : BLACK CONDUCTIVE POLYSTYRENE.
 6. A_o AND B_o MEASURED ON A PLANE 0.3 MM ABOVE THE BOTTOM OF THE POCKET.
 7. K_o MEASURED FROM A PLANE ON THE INSIDE BOTTOM OF THE POCKET TO THE TOP SURFACE OF THE CARRIER.
 8. POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED AS TRUE POSITION OF POCKET, NOT POCKET HOLE.
 9. POCKET CENTER AND POCKET HOLE CENTER MUST BE SAME POSITION.
 10. REFER TO MAA-3092 & MSA-3018 FOR THE IDT STANDARD REQUIREMENT FOR CARRIER TAPE.
 11. ALL THE DIMENSIONS ARE IN MILLIMETERS (MM).
 12. LENGTH PER ROLL = 515 METERS.



TOLERANCES UNLESS OTHERWISE SPECIFIED		ANGLE	
DECIMAL 25	X ± .25	± .5°	
XXX ± .13			
APPROVALS	DATE		
 6024 Silver Creek Valley Road, San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572		TITLE: ES/ESG 48 & PR/PRG 32/48 CARRIER TAPE (KOSTAT)	
STOCK NO.	DRAWING NO.	SCALE	REV
P8-422-000	MSC-7301	N/A	00
DO NOT SCALE DRAWING		SHEET 1 OF 2	