



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> TB1403-01 <b>DATE:</b> April 9, 2014 <b>Product Affected:</b> TSSOP-14, TSSOP-16 <b>shipped in Tape &amp; Reel</b> (Refer to Attachment II for affected part#)  <b>Date Effective:</b> July 9, 2014	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code      Shipment starting from July 9, 2014 <input checked="" type="checkbox"/> Other
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<b>Contact:</b> IDT PCN DESK <b>E-mail:</b> <a href="mailto:pcndesk@idt.com">pcndesk@idt.com</a>	<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Samples:</b> 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 planned to standardize the carrier tape, plastic reel and quantity per reel used on TSSOP-14 and TSSOP-16.</p> <p>Attachment I - Additional information on the changes.          Attachment II - Affected part list          Attachment III - Carrier Tape Drawings</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**

N/A

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

**CUSTOMER COMMENTS:** \_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_      DATE: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: TB1403-01

**PCN Type:** Packaging

**Data Sheet Change:** None

**Detail of Change:** This notification is to advise our customers that IDT has planned to standardize the following items on TSSOP-14 and TSSOP-16 to only one type as detailed below.

1. Carrier Tape
2. Plastic Reel
3. Quantity per Reel

**Table 1: Changes (From Two Types to One Type for Carrier Tape, Plastic Reel and Quantity per Reel)**

No	Description	From		To
		Group A <sup>1</sup>	Group B <sup>2</sup>	Group A & Group B
	Product Group	Group A <sup>1</sup>	Group B <sup>2</sup>	Group A & Group B
1	IDT Carrier Tape Part#	P8-195-P16	P8-290-P16	P8-290-P16
	IDT Carrier Tape Drawing#	MSC-3416	MSC-5912	MSC-5912
	Supplier Carrier Tape Part#	TSS14/16GP-22B3-360C-SD	TSS16GP-20B3-360C-SD	TSS16GP-20B3-360C-SD
	Supplier	PCT	PCT	PCT
	Pocket Width, Ao (mm)	6.8 ± 0.1	6.9 ± 0.1	6.9 ± 0.1
	Pocket Length, Bo (mm)	5.4 ± 0.1	5.4 ± 0.1	5.4 ± 0.1
	Pocket Depth, Ki (mm)	1.3 ± 0.1	1.2 ± 0.1	1.2 ± 0.1
	Pocket Pitch, P1 (mm)	8.0 ± 0.1	8.0 ± 0.1	8.0 ± 0.1
	Total Pocket Depth, Ko (mm)	1.7 ± 0.1	1.5 ± 0.1	1.5 ± 0.1
	Carrier Tape Width, W (mm)	16.0 +0.2/-0.1	12.0 +0.2/-0.1	12.0 +0.2/-0.1
	Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05
2	Plastic Reel	13"/4" Hub & 13"/7" Hub	13"/4" Hub & 13"/7" Hub	13"/7" Hub
3	Quantity per Reel	2500 & 4000	2500 & 4000	2500

*Notes:*

1. Group A - TSSOP-14 from IDT market segment
  - TSSOP-16 from Freescale market segment
  - TSSOP-16 from ICS market segment, 83054A, 8305A, 873034A
  - TSSOP-16 from IDT market segment (except 6P40086, 6P40097, 6P40098, 6V40019, 6V40021, 6V40096)
2. Group B - TSSOP-14 from ICS market segment
  - TSSOP-16 from ICS market segment (except 83054A, 8305A, 873034A)
  - TSSOP-16 from IDT market segment, 6P40086, 6P40097, 6P40098, 6V40019, 6V40021, 6V40096.

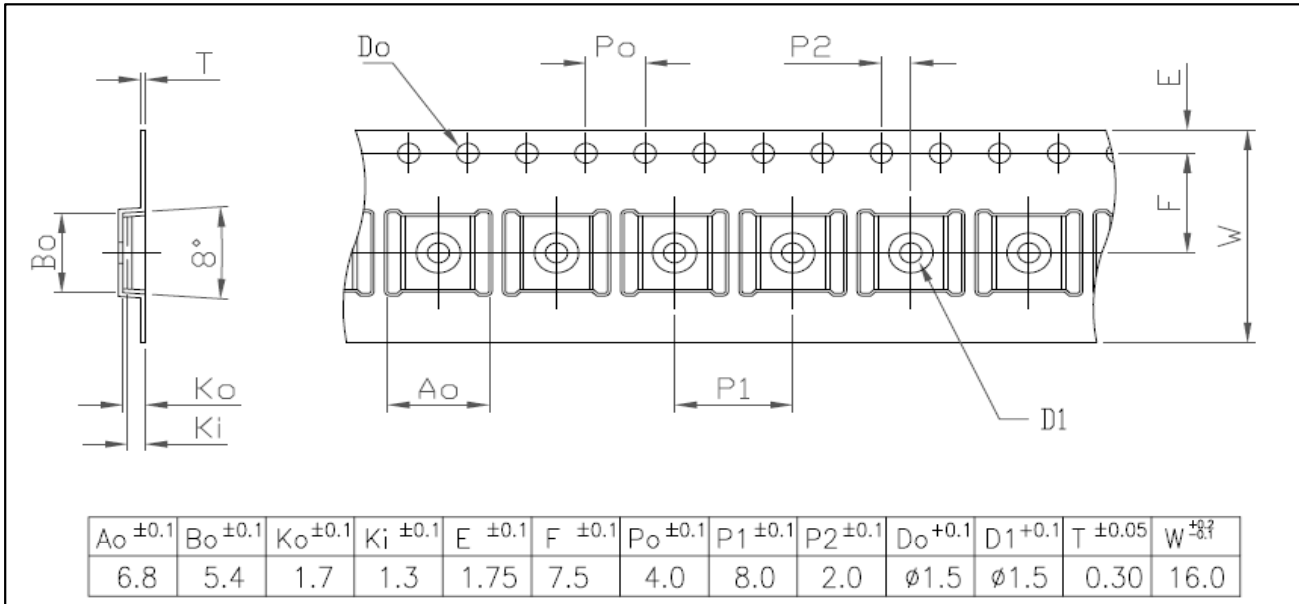


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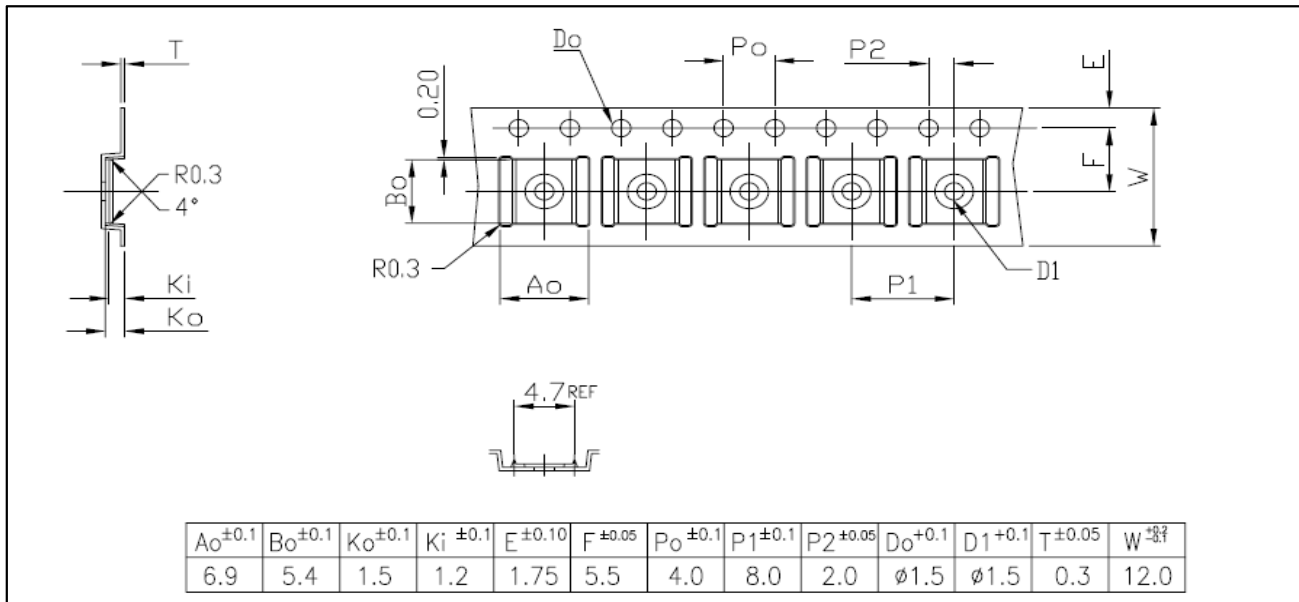
### ATTACHMENT I - PCN #: TB1403-01

**Figure1: Illustration of Carrier Tape Pocket Dimensions**

**From:** Carrier Tape (P8-195-P16) - Pocket Dimensions



**To:** Carrier Tape (P8-290-P16) - Pocket Dimensions



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



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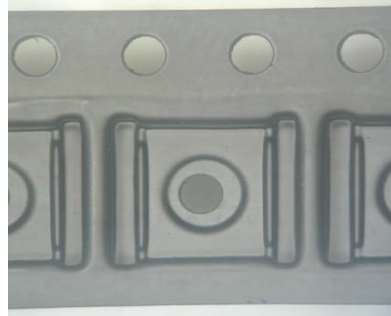
### ATTACHMENT I - PCN #: TB1403-01

**Figure2: Illustration of Carrier Tape Pocket Design**

**From:** Carrier Tape (P8-195-P16)

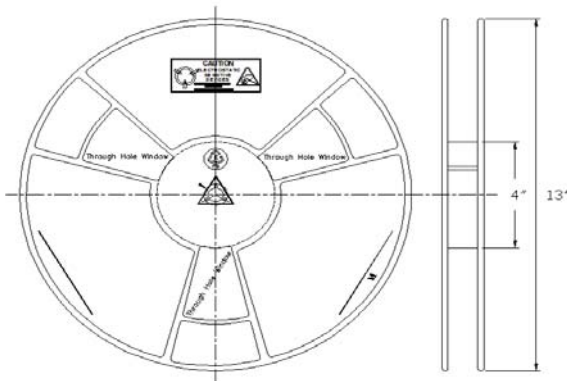


**To:** Carrier Tape (P8-290-P16)

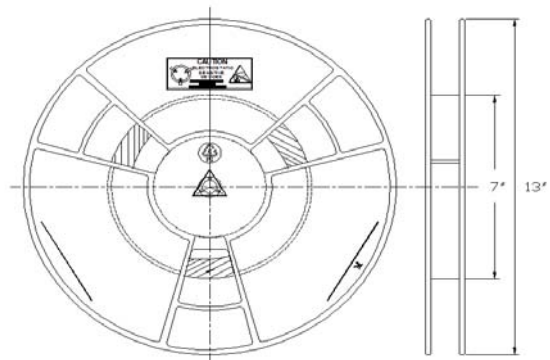


**Figure3: Illustration of Plastic Reel**

**From:** 13"/4" Hub Plastic Reel



**To:** 13"/7" Hub Plastic Reel





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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN #: TB1403-01

#### Affected Part Numbers (Group A)

Part Number	Part Number	Part Number	Part Number
5V5216PGGI8	873034AGT	23S08E-1HPGGI8	6P40118PGG8
5V5216PGGI8-TSW	2308-1HPGG8	23S09-1HPGG8	6V10033PGG8
74CBTLV3125PGG8	2308-1HPGGI8	23S09-1HPGGI8	6V31023PGG8
74CBTLV3126PGG8	2308-2HPGG8	23S09E-1HPGG8	6V31023PGGI8
MC100ES6130DTR2	2308-2HPGGI8	23S09E-1HPGGI8	6V40182PGG8
MC100ES6130EJR2	2308-5HPGG8	5SH80002PGG8	6V40187PGGW38
MPC962308DT-1HR2	2308-5HPGGI8	5V2305PGGI8	6V41215PGG8
MPC962308EJ-1HR2	2308A-1HPGG8	5V41065PGG8	6V41215PGGI8
MPC962309DT-1HR2	2308A-1HPGGI8	5V41065PGGI8	6V41218PGG8
MPC962309EJ-1HR2	2308A-5HPGG8	5V41068APGG8	6V41218PGGI8
83054AGI-01LFT	2308B-1HPGG8	5V41068APGGI8	6V41263PGGI8
83054AGI-01T	2308B-1HPGGI8	5V41129PGG8	6V41286PGG8
83054AGILFT	2308B-5HPG8	5V41129PGGI8	6V41295PGG8
83054AGIT	2308B-5HPGG8	5V41185PGG8	6V41295PGGI8
8305AG-02LFT	2309-1HPGG8	5V41185PGGI8	6V41314PGG8
8305AG-02T	2309-1HPGGI8	5V41235PGG8	74CBTLV3251PGG8
8305AGI-02LFT	2309A-1HPGG8	5V41235PGGI8	74CBTLV3253PGG8
8305AGILFT	2309A-1HPGGI8	5V41241PGG8	74CBTLV3257PGG8
8305AGILFT-09	2309B-1HPGG8	5V41285PGGI8	8T30006PGGI8
8305AGILFT-PAC	2309B-1HPGGI8	5V41315PGGI8	QS3VH251PAG8
8305AGIT	2309NZ-1HPGG8	5V41355PGG8	QS3VH253PAG8
8305AGLFT	2309NZ-1HPGGI8	5V41355PGGI8	QS3VH257PAG8
8305AGLFT-TEJ	23S08-1HPGG8	5V926APGGI8	
8305AGT	23S08-1HPGGI8	5V927PGGI8	
873034AGLFT	23S08E-1HPGG8	5V927PGI8	



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#### Affected Part Numbers (Group B)

Part Number	Part Number	Part Number	Part Number
8535AG-21LFT	280GI-57LFT	475G-20LFT	557GI-08LFT
8535AGI-21LFT	280PGILFT	475G-21LFT	558AG-02LNT
1526GILFT	280PGLFT	475GI-14LFT	558AG-02LNT-INO
1526GLFT	281G-04LFT	476AG-08LFT	558G-01LFT
1527G-110LFT	281GI-03LFT	476BG-08LFT	580G-01ILFT
1527GLFT	281PGILFT	476BGI-08LFT	580G-01LFT
2059GI-02LFT	281PGLFT	476CG-08LFT	581AG-02LFT
275G-03LFT	307G-03LFT	476G-10LFT	581G-01ILFT
275G-22LFT	307GI-03LFT	480AG-23LFT	581G-01LFT
275GI-13LFT	3732AG-28LFT	480BG-15LFT	581G-02ILFT
275PGILFT	3732AG-31LFT	480G-09LFT	581G-02LFT
275PGLFT	3732AG-32LFT	480G-11LFT	581G-02LNT
276G-01LFT	3732CG-28LFT	480G-22LFT	581G-02LNT-IB0
276PGILFT	3732DG-28LFT	480G-23LFT	601G-01ILFT
276PGLFT	3732G-28LFT	480G-49LFT	601G-01LFT
280AG-56LFT	3732G-29LFT	480GI-12LFT	601G-21LFT
280G-02LFT	3732G-30LFT	480GI-24LFT	601GI-21LFT
280G-11LFT	3732G-31LFT	487G-25LFT	612G-01ILFT
280G-25LFT	3732G-32LFT	487G-33LFT	627AG-04LFT
280G-30LFT	3771G-18LFT	487G-35LFT	627G-04LFT
280G-37LFT	414G-01LFT	487G-36LFT	650G-35LFT
280G-38LFT	414G-02LFT	548G-05ALFT	650G-36LFT
280G-39LFT	422AG-12LFT	548G-05AT	650G-40ALFT
280G-46LFT	422G-20LFT	548G-05ILFT	650G-40LFT
280G-47LFT	422G-21LFT	548G-05IT	650G-42LFT
280G-48LFT	423G-05LFT	548G-05LFT	650G-48LFT
280G-49LFT	454G-22LFT	548G-05T	650G-51LFT
280G-50LFT	454G-22T	548G-06T	650G-52LFT
280G-52LFT	454G-23T	552G-02ILNT	650GI-36LFT
280G-53LFT	454G-25T	552G-02IT	650GI-41LFT
280G-54LFT	475AG-19LFT	552G-02IT-INO	650GI-44LFT
280G-55LFT	475CG-19LFT	552G-03IT	650GI-47LFT
280G-56LFT	475G-02LFT	554G-01AILFT	650GI-55LFT
280G-57LFT	475G-11LFT	557G-03LFT	660GILFT
280GI-10LFT	475G-14LFT	557G-03LFT-PAC	660GIT
280GI-29LFT	475G-15LFT	557G-03LFT-TSW	661GILFT
280GI-30LFT	475G-17LFT	557G-08LFT	664G-01LFT
280GI-33LFT	475G-18LFT	557GI-03HUALFT	664G-02LFT
280GI-34LFT	475G-19LFT	557GI-03LFT	664G-03LFT



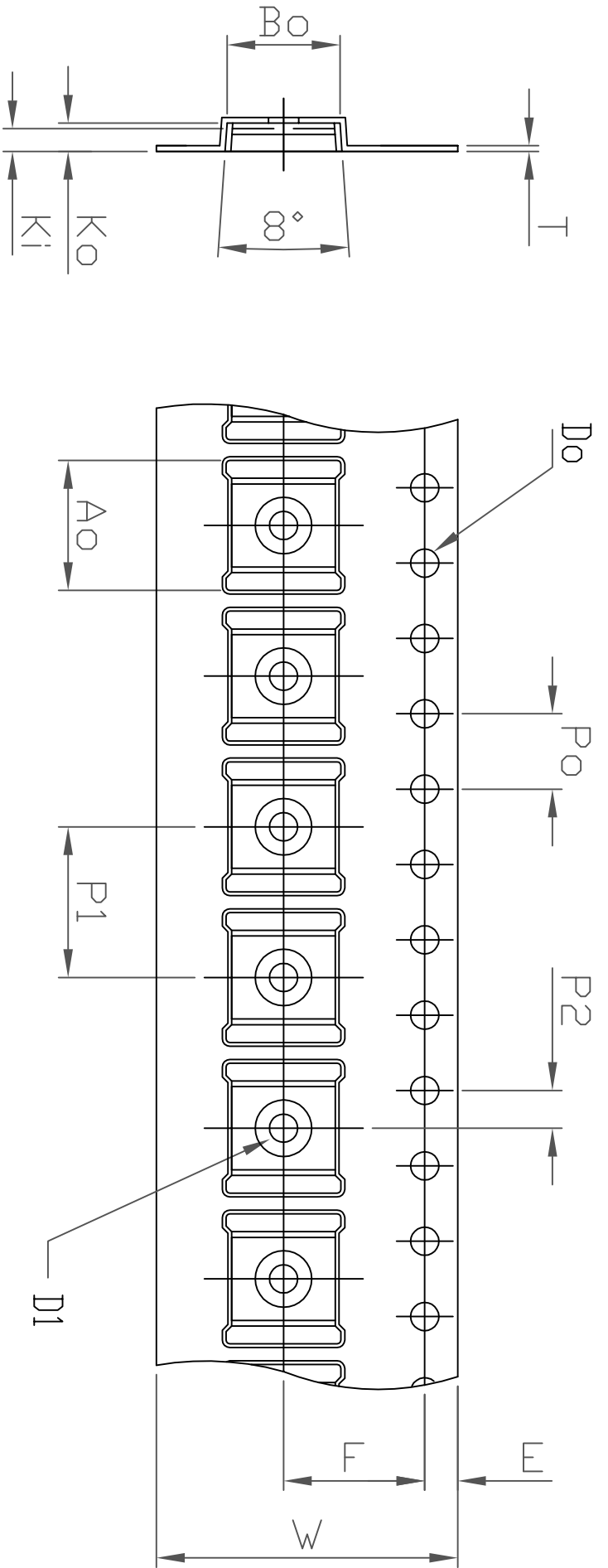
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#### Affected Part Numbers (Group B)

Part Number	Part Number	Part Number	Part Number
664G-04LFT	840002AGLFT	85102AGIT	MK1727-01DGILFT
664G-05LFT	840002AGT	8512062AGILFT	MK1727-01DGILFTR
664GI-01LFT	840245AGILFT	85301AGLFT	MK1727-01DGITR
664GI-05LFT	840272AGILFT	85301AGT	MK2308G-1HILFTR
8101925AGILFT	841S01BGLFT	853S01AGILFT	MK2308G-1HLFTR
810251AGILFT	841S01CGLFT	854054AGLFT	MK2308G-1HTR
810251AGILFT-EXT	841S101EGILFT	854104AGILFT	MK2732-06GLFTR
810251AGIT	8430252CG-45LFT	854104AGLFT	MK2745-33GLFTR
810252AGILFT	8430252CGI-45LFT	854104AGLFT-HT	MK2746-01GLFTR
810525AGILFT	8430252CGI-45T	854104AGT	MK2746GLFTR
813321AG-04LFT	843101AG-100T	854105AGILFT	MK3722GLFTR
813321AG-04T	843101AG-250T	854105AGIT	MK3724GILFTR
813321AG-ALPLFT	843101AG-312T	854105AGLFT	MK3724GLFTR
8304AG-02LFT	843101AGI-100LFT	854105AGT	MK3732-19GLFTR
8304AG-02T	843201AG-375LFT	854S054AGILFT	6P40086PGG8
8304AG-03LFT	843201AG-375T	854S204BGILFT	6P40097PGG8
8304AG-03T	843201AGI-375LFT	859S0212BGILFT	6P40098PGG8
83052AGI-01LFT	843201AGI-375T	86004BG-01LFT	6V40019PGG8
83052AGI-01T	843241BGLFT	86004BG-01T	6V40021PGGI8
83056AGILFT	843242AGLFT	86004BGILFT	6V40021PGGIT
83056AGIT	843242AGT	86004BGIT	6V40096PGG8
83058AGILFT	843252AG-04LFT	86004BGLFT	
83058AGIT	843252AG-45LFT	86004BGT	
831721AGILFT	843252AG-45T	87001BG-01LFT	
831721AGILFT-TSW	843252AGI-45LFT	87001BGI-01LFT	
831752AGILFT	843252AGLFT	8CA3054AGI-01LFT	
831752AGLFT	843252AGT	8S73034AGILFT	
83904AG-02LFT	843253AGI-45LFT	91309AGILFT	
83904AG-02T	843441AGILFT	91309AGLFT	
83904AGI-02LFT	843441AGLFT	91719AGLFT	
83904AGI-02T	843442AGILFT	91719AGLFT-SC0	
83905AG-01LFT	843N252GG-45LFT	91719BGLFT	
83905AGILFT	843SDNCG-01LFT	MK1493-05GILFTR	
83905AGLFT	843SDNCG-01T	MK1493-05GLFTR	
840002AG-01LFT	844244AGI-04LFT	MK1575-01GILFTR	
840002AG-01T	844252AG-04LFT	MK1575-01GLFTR	
840002AGI-01LFT	844252AG-04T	MK1581-01GILFTR	
840002AGILFT	844441DGILFT	MK1725GILFTR	
840002AGIT	85102AGILFT	MK1725GLFTR	




Ao ±0.1	Bo ±0.1	Ko ±0.1	Ki ±0.1	E ±0.1	F ±0.1	PO ±0.1	P1 ±0.1	P2 ±0.1	Do +0.1	D1 +0.1	T ±0.05	W <sup>+0.2</sup>
6.8	5.4	1.7	1.3	1.75	7.5	4.0	8.0	2.0	Ø1.5	Ø1.5	0.30	16.0

NOTES : (UNLESS OTHERWISE SPECIFIED)

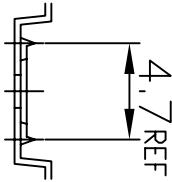
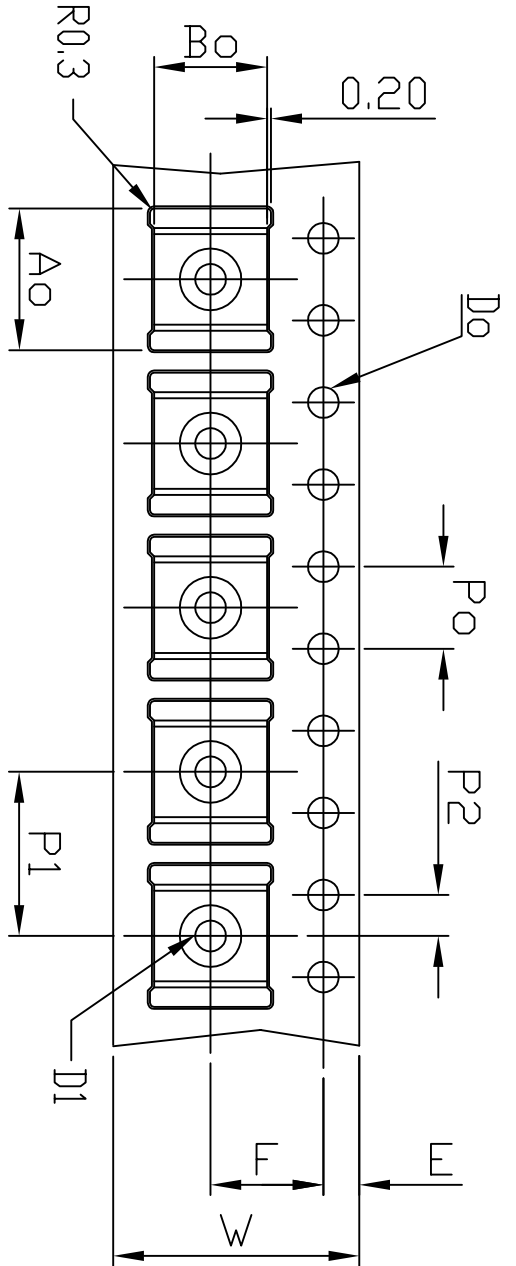
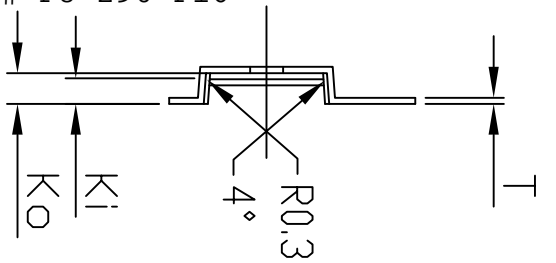
1. SUPPLIER : PCT
2. SUPPLIER PART NUMBER : TSS14/16GP-20B3-360C-SD
3. 10 SPROCKET HOLE PITCHES CUMULATIVE TOLERANCE ±0.2mm
4. REFER TO MSA-3018 FOR THE ALLOWABLE CAMBER REQUIREMENT.
5. MATERIAL : BLACK CONDUCTIVE POLYSTYRENE.
6. Ao AND Bo MEASURED ON A PLANE 0.3 MM ABOVE THE BOTTOM OF THE POCKET.
7. Ko 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 = 360 METERS.
13. MATERIAL : GP-9080.
14. APPLICABLE TO :

- i) EN/ENG 16 PACKAGE.
- ii) IDT MARKET SEGMENT'S Pg/Pgg 14 PRODUCTS.
- iii) FRE MARKET SEGMENT'S Pg/Pgg 16.
- iv) ICS MARKET SEGMENT'S Pg/Pgg 16 83054A, 8305A, 853054A, 873034A, 8305A, 853054A & 873034A PRODUCTS.
- v) IDT MARKET SEGMENT'S Pg/Pgg 16 EXCEPT 5130009, 6P40086, 6P40097, 6P40098, 6P40019, 6V40021, 6V40033, 6V40036, 6V40096, 6V40114, 6V50006.

TOLERANCES UNLESS OTHERWISE SPECIFIED		ANGLE ±.5°	
DECIMAL	X ± .25		
	.XX ± .13		
	.XXX ± .13		
APPROVALS	DATE	WWW.IDT.COM	
DRAWN			
TITLE: EN/ENG 16 & Pg/Pgg 14/16 CARRIER TAPE (PCT)		6024 Silver Creek Valley Road San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-5572	
STOCK NO.	P8-195-P16	DRAWING NO.	MSC-3416
DO NOT SCALE DRAWING		REV	05
		SCALE	N/A
		SIZE	
			SHEET 1 OF 2



Attachment III - Tray part# P8-290-P16



$A_0 \pm 0.1$	$B_0 \pm 0.1$	$K_0 \pm 0.1$	$K_i \pm 0.1$	$E \pm 0.10$	$F \pm 0.05$	$P_0 \pm 0.1$	$P_1 \pm 0.1$	$P_2 \pm 0.05$	$D_0 \pm 0.1$	$D_1 \pm 0.1$	$T \pm 0.05$	$W \pm 0.1$
6.9	5.4	1.5	1.2	1.75	5.5	4.0	8.0	2.0	$\phi 1.5$	$\phi 1.5$	0.3	12.0

NOTES : (UNLESS OTHERWISE SPECIFIED)

- SUPPLIER : PCT
- SUPPLIER PART NUMBER : TSS16P-20B3-360C-SD
- 10 SPROCKET HOLE PITCHES CUMULATIVE TOLERANCE  $\pm 0.2\text{mm}$
- REFER TO MSA-3018 FOR THE ALLOWABLE CAMBER REQUIREMENT.
- MATERIAL : BLACK CONDUCTIVE POLYSTYRENE.
- $A_0$  AND  $B_0$  MEASURED ON A PLANE 0.3 MM ABOVE THE BOTTOM OF THE POCKET.
- $K_0$  MEASURED FROM A PLANE ON THE INSIDE BOTTOM OF THE POCKET TO THE TOP SURFACE OF THE CARRIER.
- POCKET POSITION RELATIVE TO SPROCKET HOLE CENTER MUST BE SAME POSITION.
- POCKET CENTER AND POCKET HOLE CENTER MUST BE SAME POSITION.
- REFER TO MAA-3092 & MSA-3018 FOR THE IDT STANDARD REQUIREMENT FOR CARRIER TAPE.
- ALL THE DIMENSIONS ARE IN MILLIMETERS (MM).
- LENGTH PER ROLL = 360 METERS.
- APPLICABLE TO :
- ICS MARKET SEGMENT'S PG/PGG 14 PRODUCTS.
- ICS MARKET SEGMENT'S PG/PGG 16 EXCEPT 83054A, 8305A, 853054A, 873034A, 83054A, 8305A, 853054A & 873034A PRODUCTS.
- IDT MARKET SEGMENT'S PG/PGG 16 5130009, 6P40086, 6P40097, 6P40098, 6P40019, 6V40021, 6V40033, 6V40036, 6V40096, 6V40114, 6V50006 PRODUCTS

TOLERANCES UNLESS OTHERWISE SPECIFIED		DECIMAL 25		ANGLE $\pm 5^\circ$	
X $\pm 0.25$		Y $\pm 0.25$		Z $\pm 0.25$	
XXX $\pm 1.3$					
APPROVALS	DATE	WWW.IDT.COM			
DRAWN		TITLE:		PG/PGG 14/16 CARRIER TAPE (PCT)	
		STOCK NO.		DRAWING NO.	
		P8-290-P16		MSC-5912	
		DO NOT SCALE DRAWING		SHEET 1 OF 1	
		SCALE		N/A	
		REV		04	

6024 Silver Creek Valley Road,  
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 PHONE: (408) 284-8200  
 FAX: (408) 284-3572