

Application Note 0012

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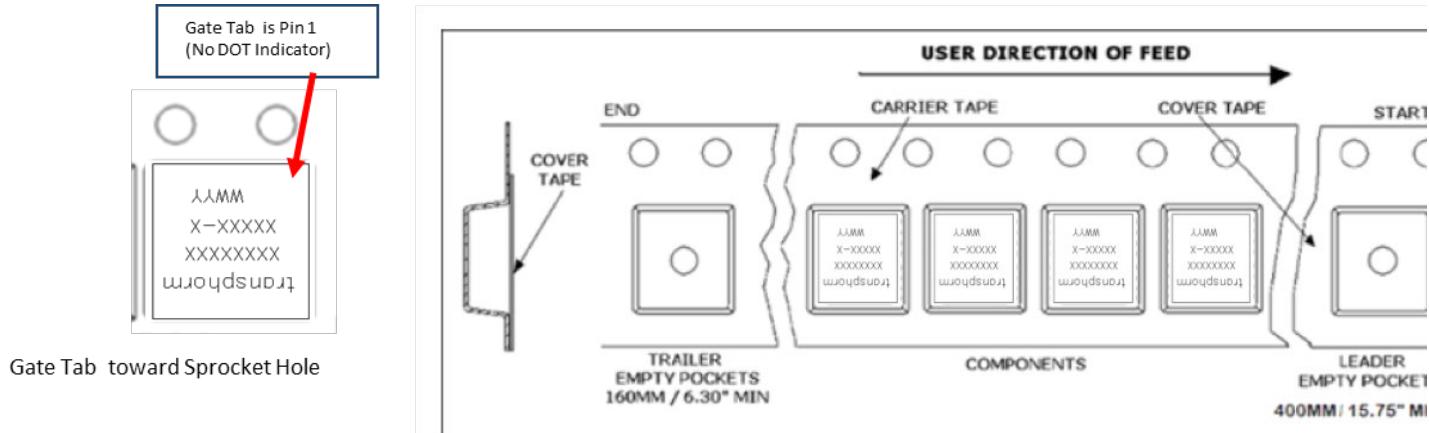
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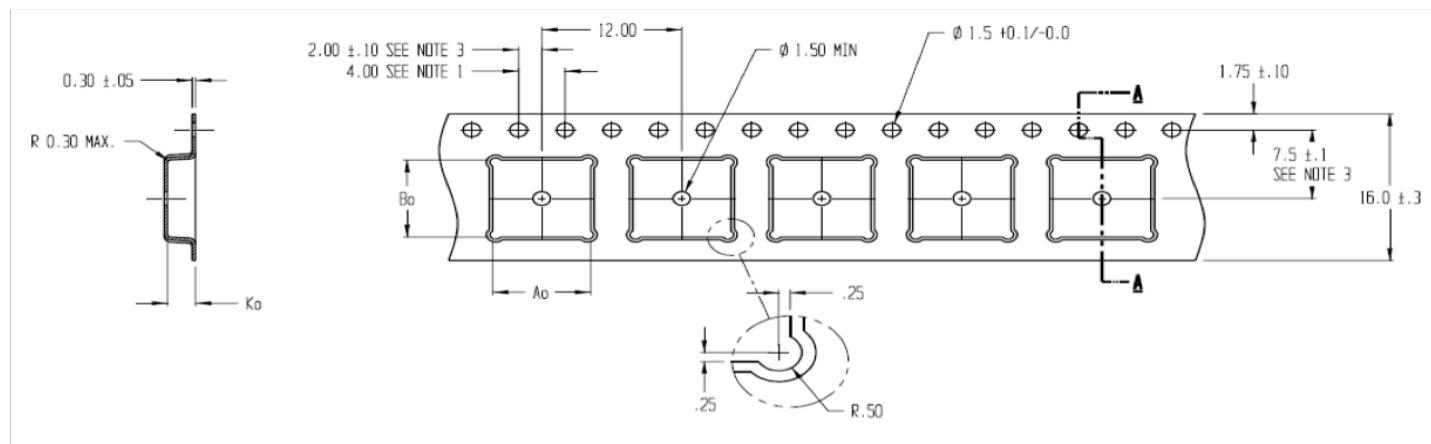
1. GEN III 8X8mm PQFN TAPE & REEL INFORMATION

Part I: Product Orientation



- Leader Empty Pockets: 400mm / 15.75" min
- Trailer Empty Pockets: 160mm / 6.30" min
- Quantity per Reel: 500pcs

Part II: Carrier Tape Dimension



$A_0 = 8.40$

$B_0 = 8.40$

$K_0 = 2.40$

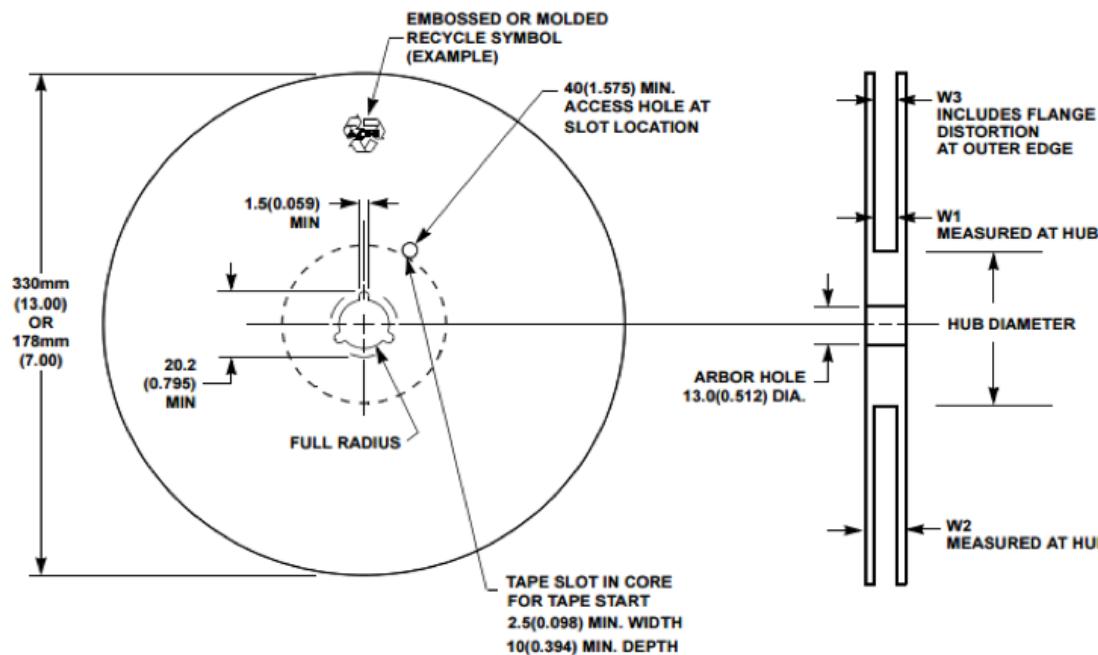
Notes:

- 10 Sprocket Hole pitch cumulative tolerance ± 0.2
- Camber in compliance with EIA 481
- Pocket position relative to Sprocket Hole measured as true position of Pocket not Pocket Hole

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Part III: Reel Dimension

- Reel Size: 178mm

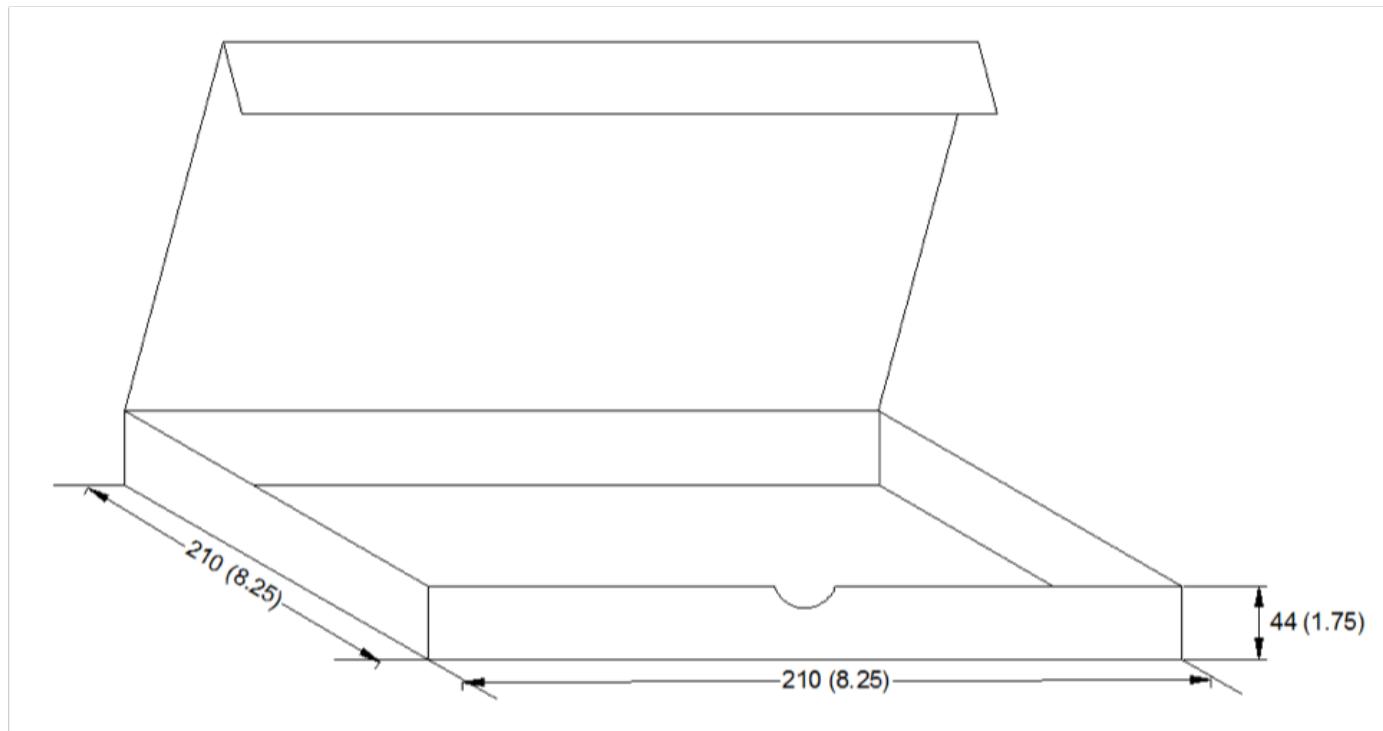


TAPE WIDTH	W1 (NOMINAL)	W2 (MAXIMUM)	W3 (MAXIMUM)
8mm (0.315)	8.4 (0.331)	14.4 (0.567)	10.9 (0.429)
12mm (0.472)	12.4 (0.488)	18.4 (0.724)	15.4 (0.606)
16mm (0.629)	16.4 (0.646)	22.4 (0.882)	19.4 (0.764)
24mm (0.945)	24.4 (0.961)	30.4 (1.197)	27.4 (1.079)
32mm (1.260)	32.4 (1.276)	38.4 (1.512)	35.4 (1.394)
44mm (1.732)	44.4 (1.748)	50.4 (1.984)	47.4 (1.866)

Dimensions are in millimeters (inches are in brackets for reference only).

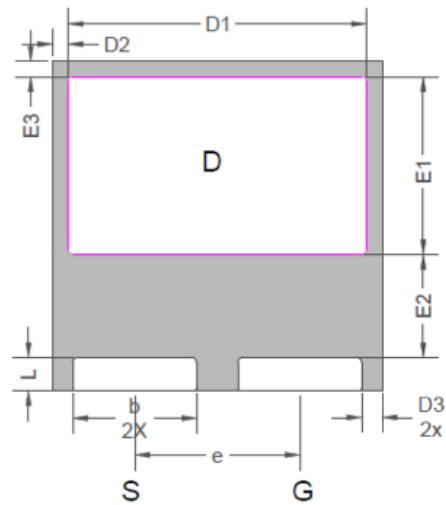
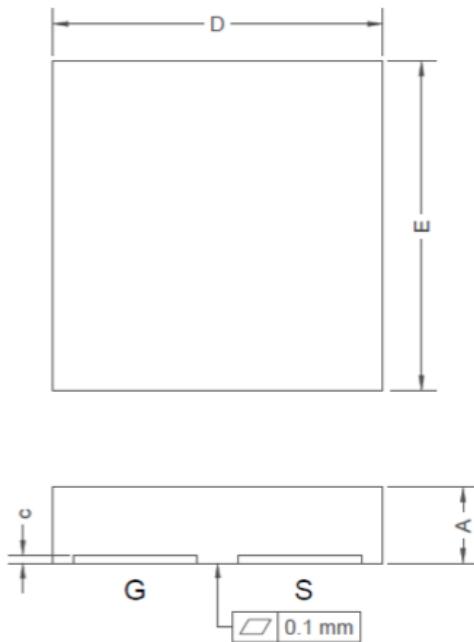
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Part IV: Box Size



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Part V: Package POD for LDG Version



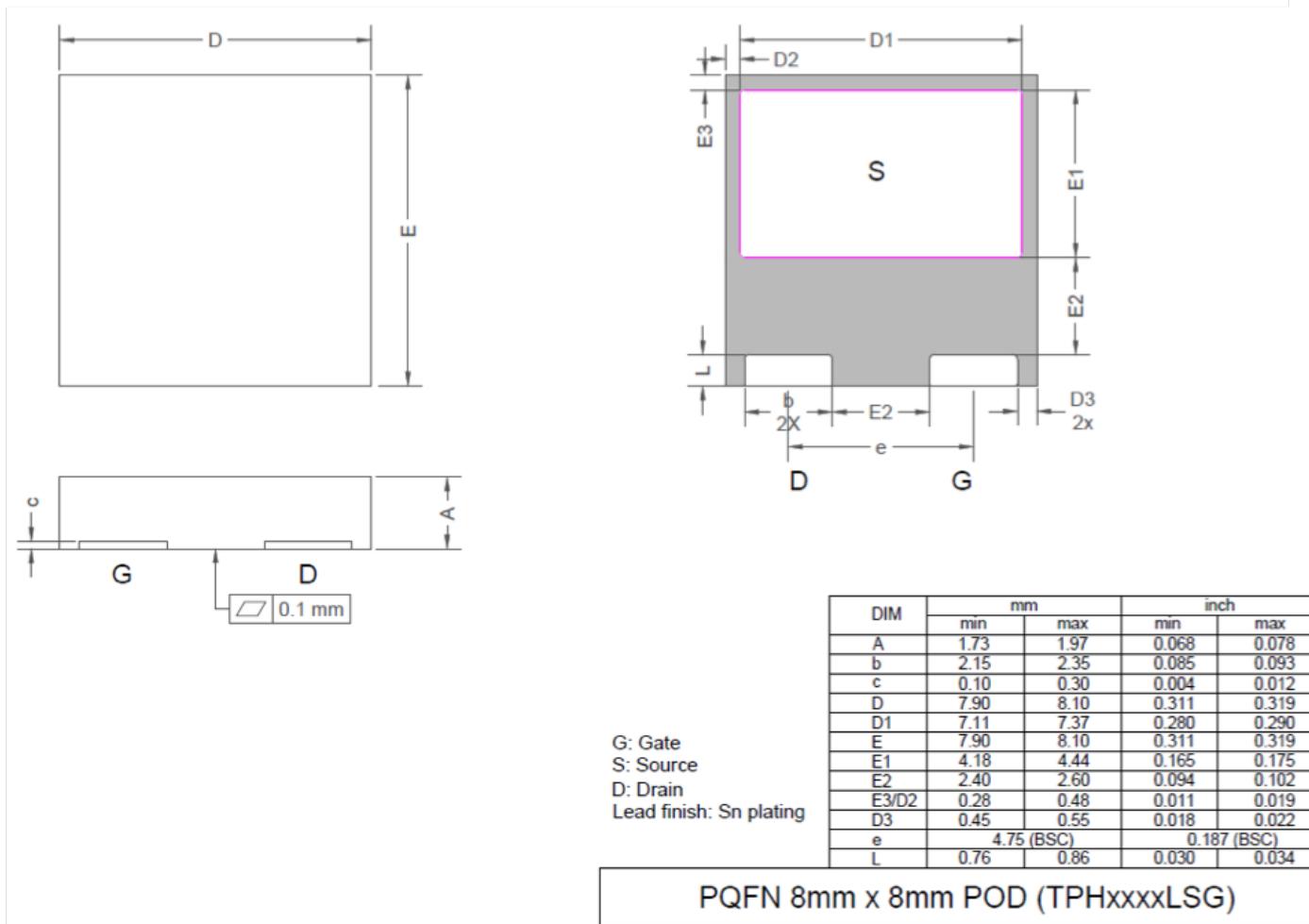
G: Gate
S: Source
D: Drain
Lead finish: Sn plating

DIM	mm		inch	
	min	max	min	max
A	1.73	1.97	0.068	0.078
b	2.90	3.10	0.114	0.122
c	0.10	0.30	0.004	0.012
D	7.90	8.10	0.311	0.319
D1	7.11	7.37	0.280	0.290
E	7.90	8.10	0.311	0.319
E1	4.18	4.44	0.165	0.175
E2	2.40	2.60	0.094	0.102
E3/D2	0.28	0.48	0.011	0.019
D3	0.45	0.55	0.018	0.022
e	4.00 (BSC)		0.157 (BSC)	
L	0.76	0.86	0.030	0.034

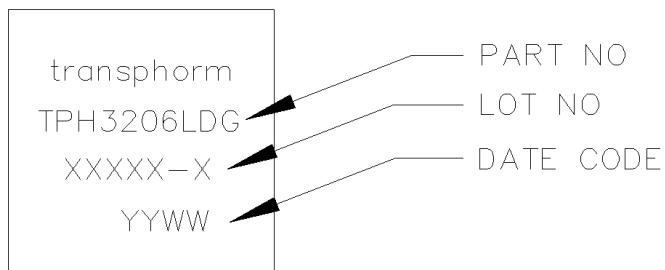
PQFN 8mm x 8mm POD (TPHxxxxLDG)

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Part VI: Package POD for LSG Version & Laser Marking Sample



Laser Marking Sample



TOP MARKING (LASER)

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Part VII: Tape and Reel Packing Information



Tape and Reel Shielding Bag

- 500units/reel
- Maximum 1 reel/box
- Place Tape and Reel inside moisture barrier bag
- Seal moisture bag

•

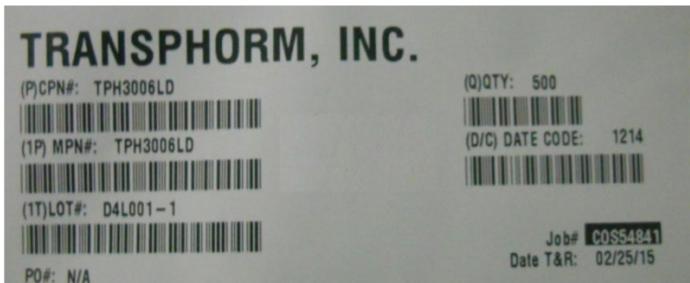
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Part VIII: Internal Shipping Box Information



Internal Shipping Box

- Tape internal box closed using ESD Label.
- Place Internal Shipping Label.



Internal Shipping Box Label

CPN: Customer Part Number

MPN: Transphorm Part Number

Lot #: Assembly Lot Number

QTY: Quantity contained inside the box

D/C: Date Code

Job #: Tape and Reel job number

Date T&R: Bag seal date

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Part IX: External Shipping Box Information



External Shipping Box

- Internal Shipping Boxes inside External Shipping Box.
- Number of Internal Boxes ranges from 3 to 5.
- Place External Shipping Label.

From: Transphorm, Inc. 115 Castilian Drive Goleta, CA 93117					
To: Customer Name Customer Address Line 1 Customer Address Line 2 City & Zip Code					
ATTN: Customer Name Attention TO Customer ATTN TO phone number					
Customer PO:					
CUSTOMER 123-A					
Customer P/N: HEMT-120					
QTY: 1000					
Transphorm P/N: TPH3205WS					
<table border="1"><thead><tr><th colspan="2">Country of Origin</th></tr></thead><tbody><tr><td colspan="2">PH</td></tr></tbody></table>		Country of Origin		PH	
Country of Origin					
PH					
Package Count X of X	Package Weight x.x lbs / x.xx kg				

External Shipping Box Label

- From:** Transphorm shipping address
- To:** Customer name, address attention to, and phone number
- Customer PO:** Customer Purchase Order Number
- Customer P/N:** Customer Part Number
- Quantity:** Total product quantity contain in external shipping box
- Transphorm P/N:** Transphorm Product Number
- Country of Origin:** Country of Origin where product was manufactured
- Package Count:** Number of External Shipping Boxes contained in shipment
- Package Weight:** Weight of packed External Shipping Box

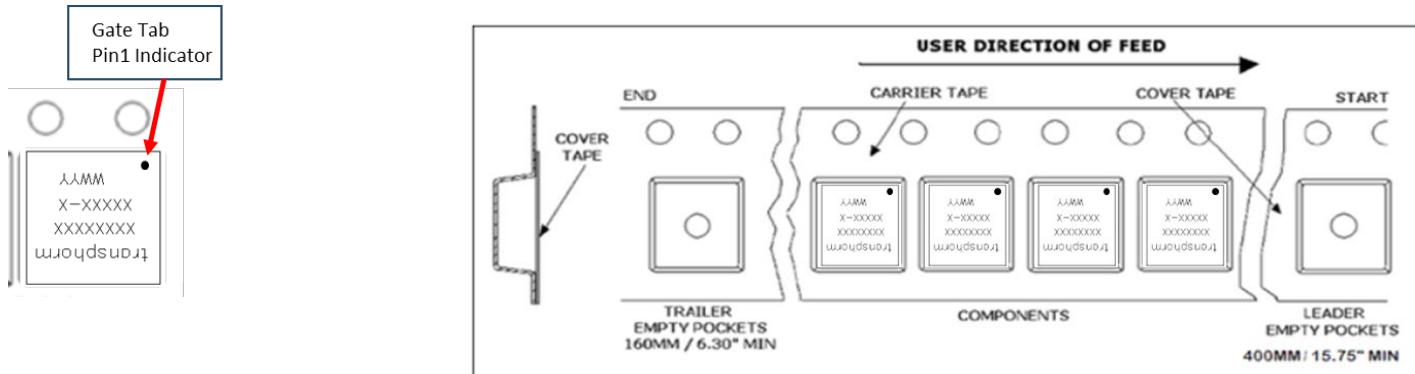
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Shipping Box Size and Weight				
Shipment	Units	Weight	Size	Comments
1 box	500pcs	0.8 (lbs) 0.363 (kgs)		FedEx Shipping box
3 boxes	1500pcs	2.4 (lbs) 1.09 (kgs)	12 in x 12 in x 12 in 304.8mm x 304.8mm x 304.8mm	
4 boxes	2000pcs	3.2 (lbs) 1.45 (kgs))	12 in x 12 in x 12 in 304.8mm x 304.8mm x 304.8mm	
5 boxes	2500pcs	4.0 (lbs) 1.81 (kgs)	12 in x 12 in x 12 in 304.8mm x 304.8mm x 304.8mm	

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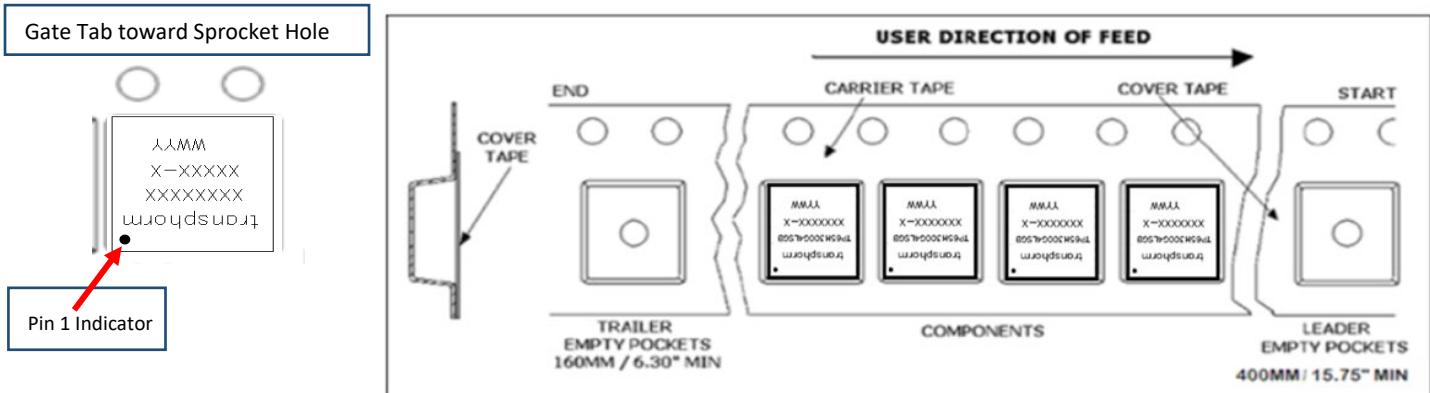
2. GEN IV 8X8mm PQFN TAPE & REEL INFORMATION

Part I: Performance Product Orientation



- Leader Empty Pockets: 77
- Trailer Empty Pockets: 37
- Quantity per Reel: 3,000pcs

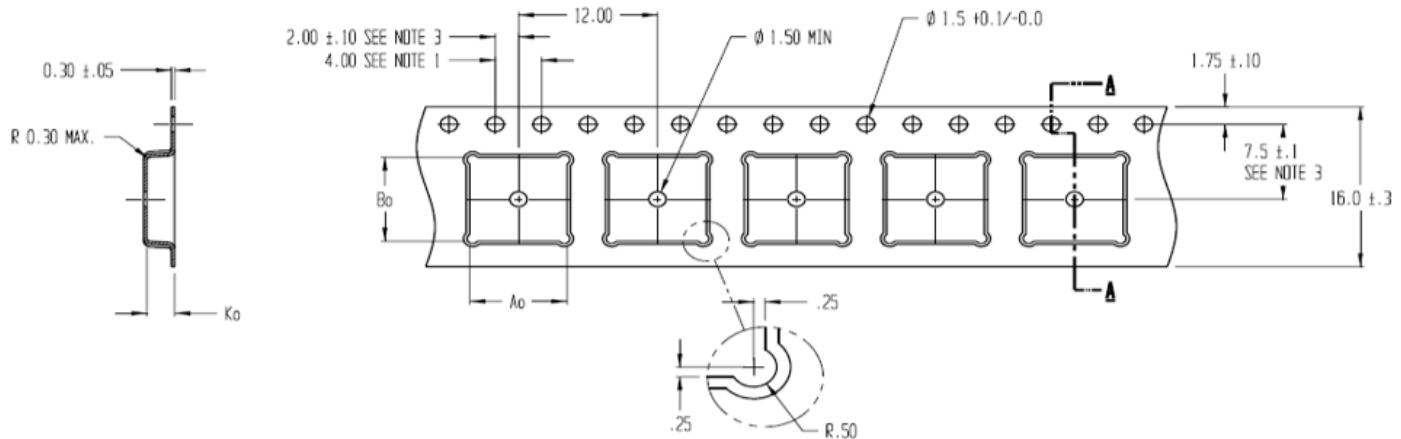
Part II: Industry Standard Product Orientation



- Leader Empty Pockets: 77
- Trailer Empty Pockets: 37
- Quantity per Reel: 3,000pcs

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Part III: Carrier Tape Dimension



Ao = 8.40

Notes:

Bo = 8.40

- 10 Sprocket Hole pitch cumulative tolerance ± 0.2

Ko = 1.20

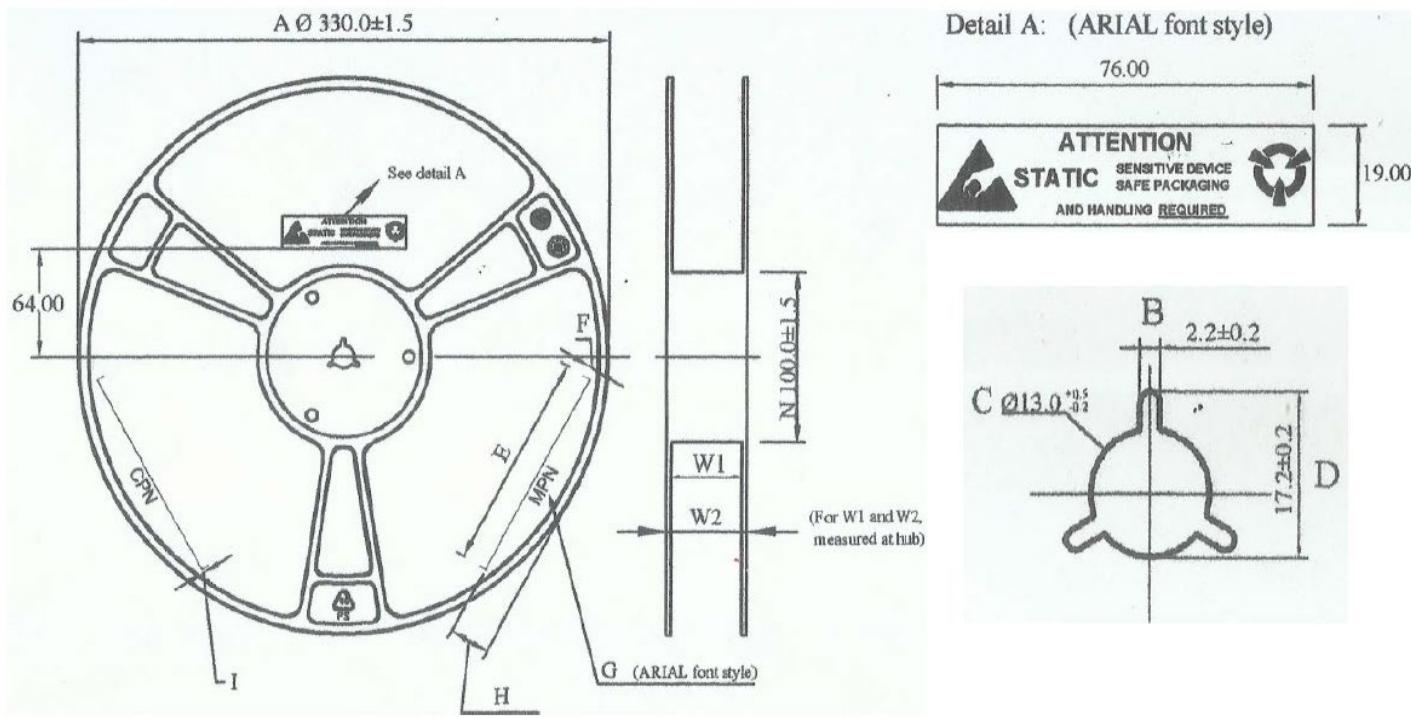
- Camber in compliance with EIA 481

- Pocket position relative to Sprocket Hole measured as true position of Pocket not Pocket Hole

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Part IV: Reel Dimension

- Reel Size: 330mm



PRODUCT NAME	U-PAK P/N	W1	W2 (Max)	E	F	G	H	I
13" 100*12mm Plastic Reel	MUR-223-BX	$12.40^{+2.0}_{-0.0}$	18.40	130 ± 1.0	5 ± 1.0	8 ± 1.0	25 ± 1.0	0.4 ± 0.5

Color based on customer requirement.
Material: HIPS (High Impact Polystyrene)

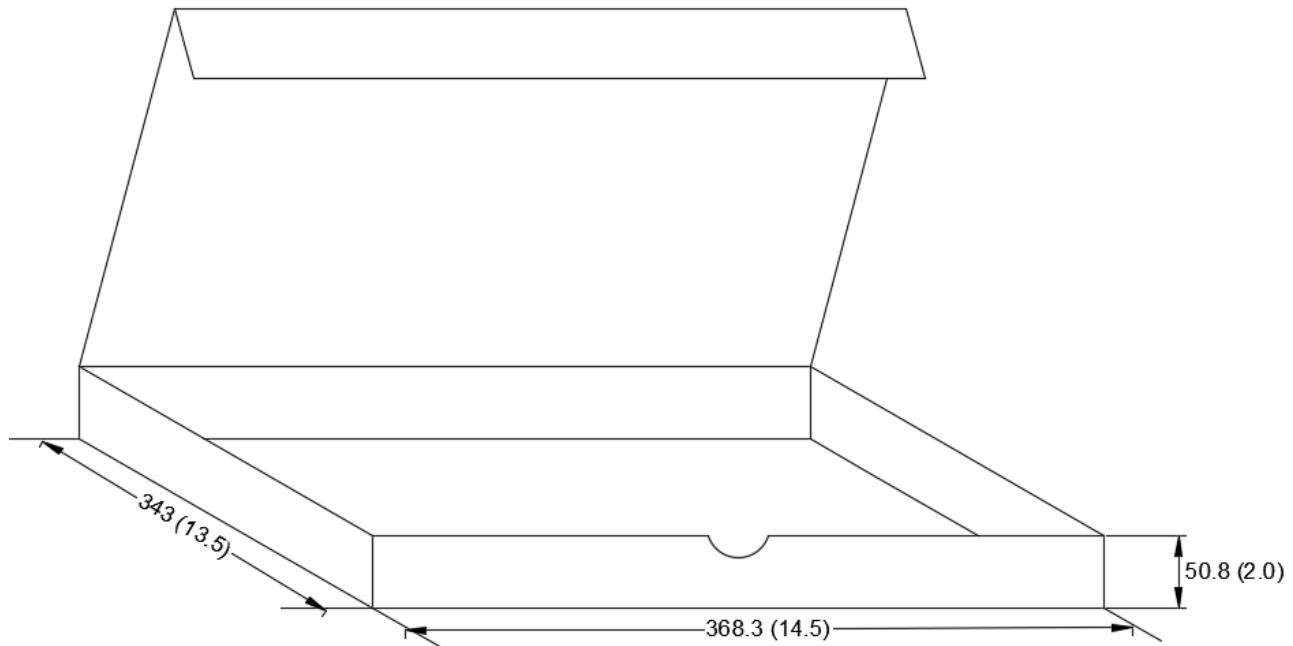
Need Ultrasonic Welding.

Surface Resistance: $10^5 \sim 10^6 \Omega/\square$

All dimensions in millimeters unless otherwise specified.
Text with ARIAL font style.

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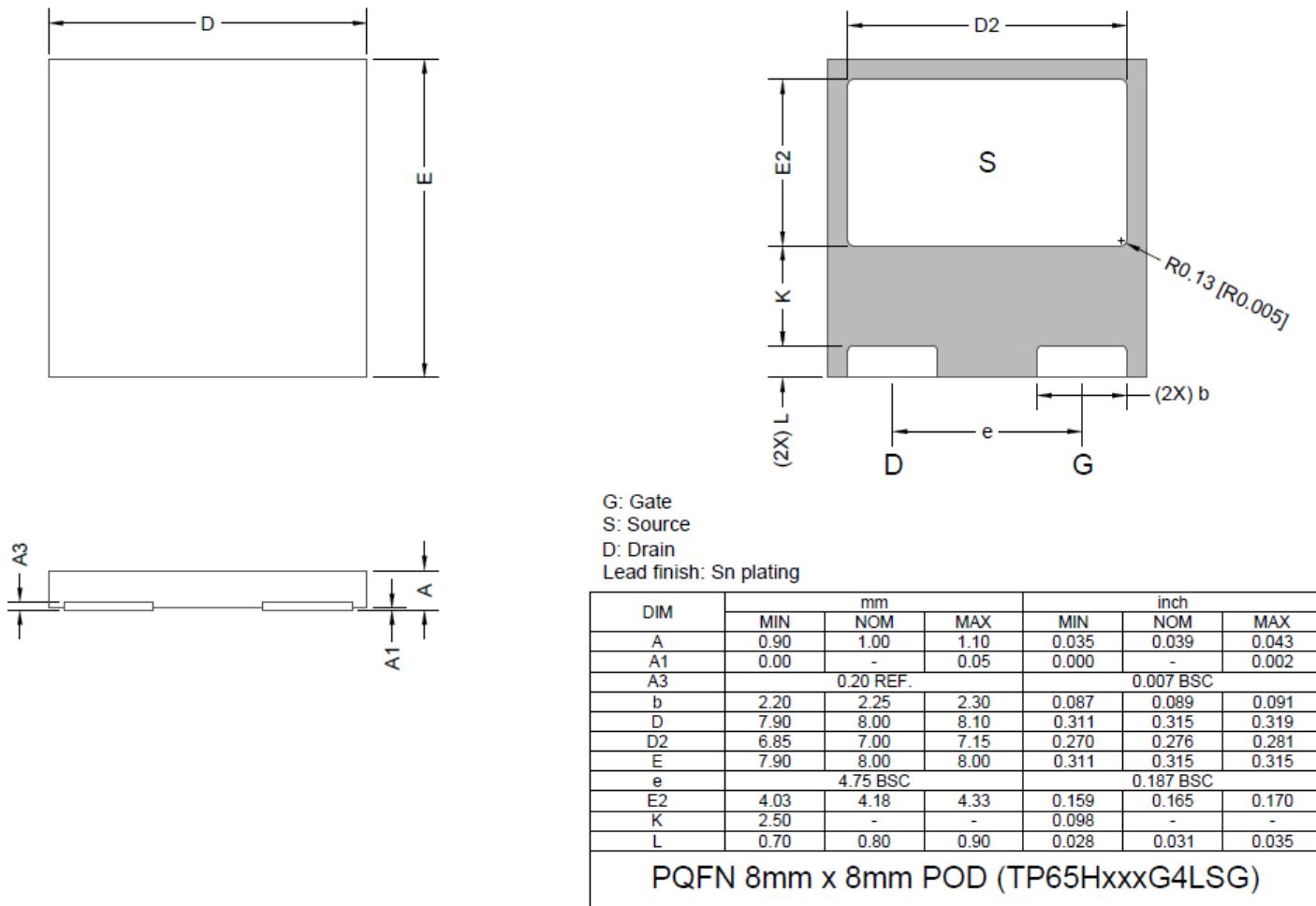
Part V: Box Size



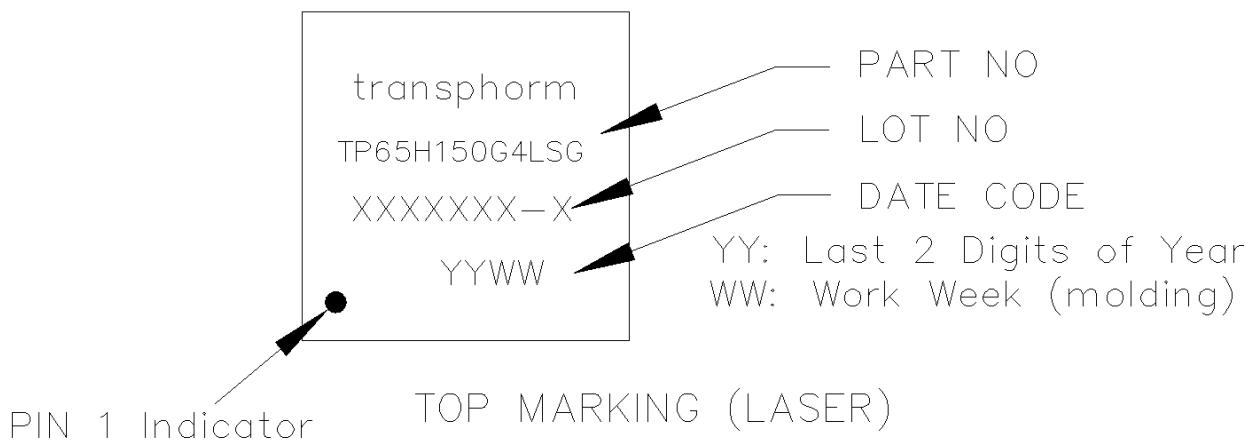
Dimensions are in millimeter (inches are in brackets for reference only)

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Part VI: Package POD for Performance Version & Laser Marking Sample

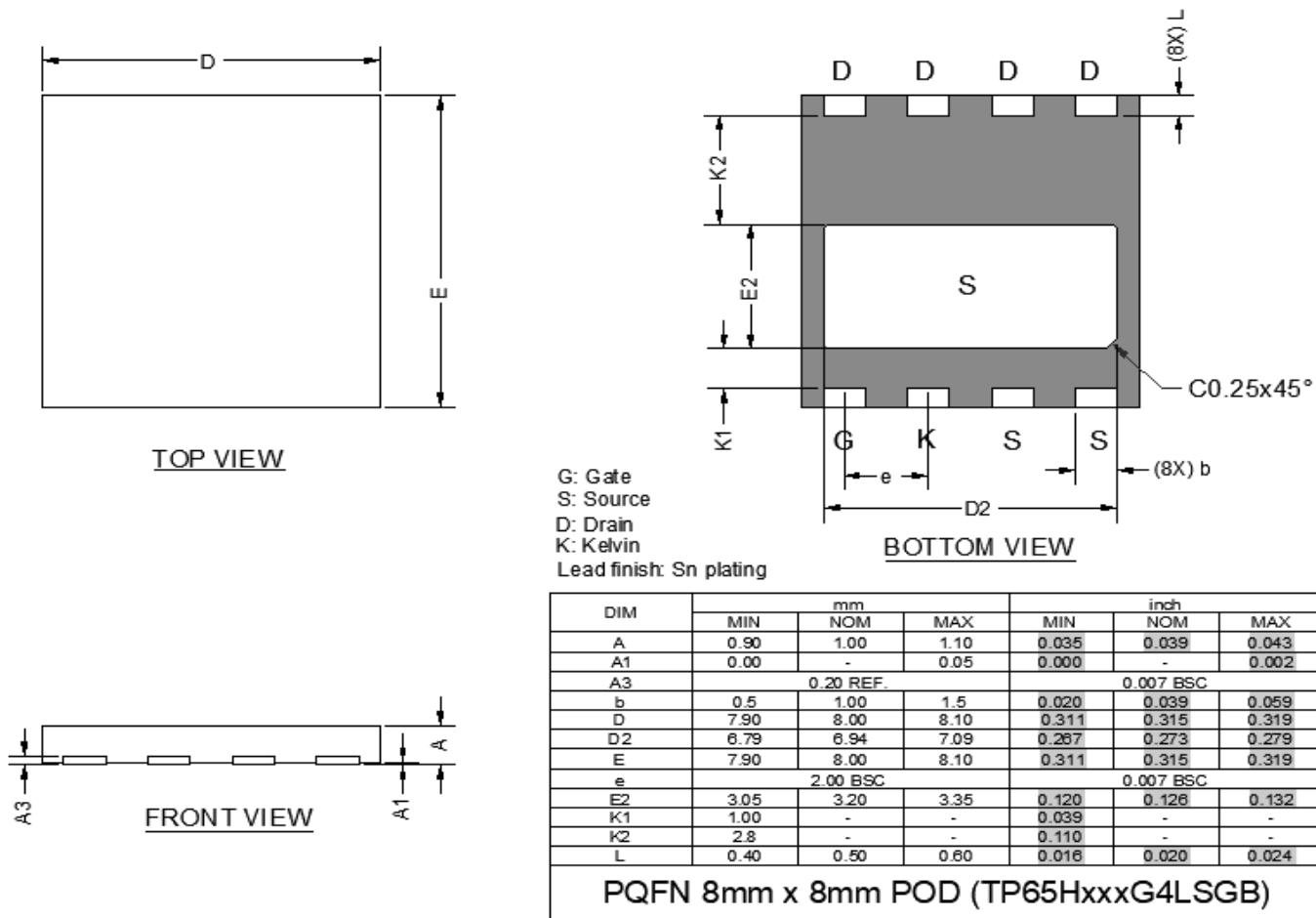


Laser Marking Sample

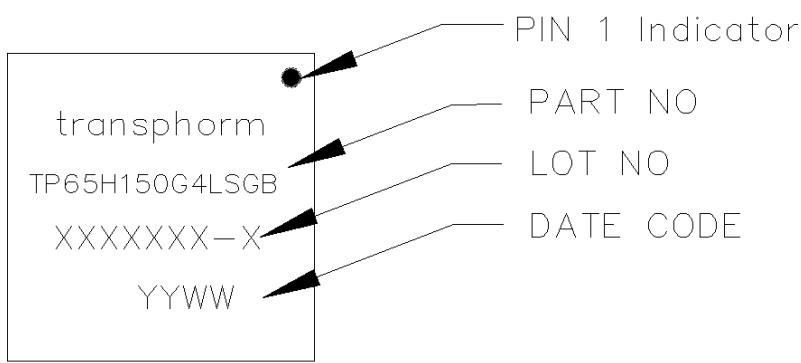


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Part VII: Package POD for Industry Standard Version & Laser Marking



Laser Marking Sample



TOP MARKING (LASER)

Application Note 0012

Part VIII: Tape and Reel Packaging Information



Tape and Reel Shielding Bag

- 3,000units/reel
- Maximum 1 reel/box
- Place Tape and Reel inside moisture barrier bag
- Seal moisture bag

Part IX: Internal Shipping Box Information



Internal Shipping Box

- Tape internal box closed using ESD Label
- Place Internal Shipping Label



Internal Shipping Box Label

Supplier P/N: Transphorm Part Number

Quantity: Quantity contained inside the box

Date Code: YYWW

Lot Code: Assembly Lot Number

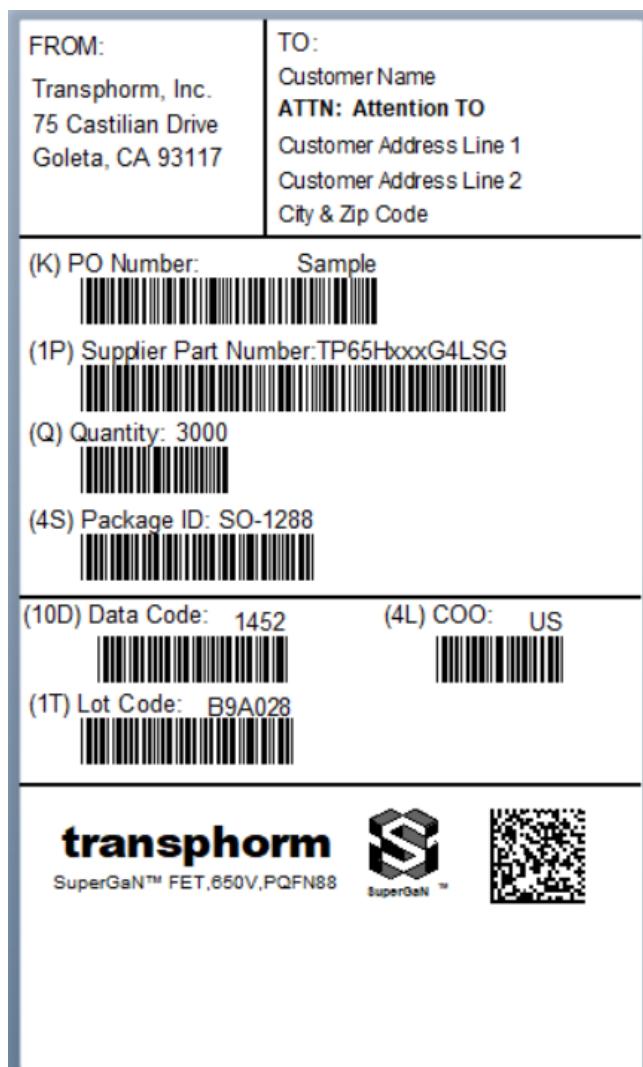
COO: Country of Origin

2D Barcode: Above information encoded

transphorm

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Part X: External Shipping Box Information



External Shipping Box

- Internal Shipping Boxes inside External Shipping Box
- Number of Internal Boxes ranges from 2 to 6
- Place External Shipping Label

External Shipping Box Label

From : Transphorm shipping address

To : Customer name, Attention TO, and address number

PO Number : Customer Purchase Order Number

Supplier Part Number : Transphorm Part Number

Quantity : Total product quantity contain in external shipping box

Package ID : Transphorm Assigned Number

Date Code: YYWW

Lot Code: Assembly Lot Number

COO: Country of Origin

2D Barcode: Above information encoded

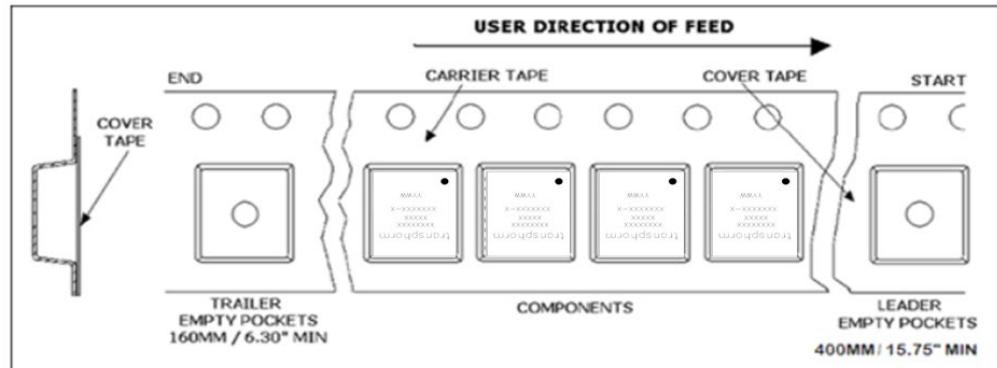
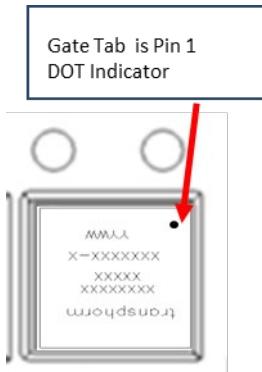
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Shipping Box Size and Weight				
Shipment	Units	Weight	Size	Comments
1 box	3,000pcs	3.13 (lbs) 1.42 (kgs)		FedEx Shipping box
3 boxes	9,000pcs	9.39 (lbs) 4.26 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
4 boxes	12,000pcs	12.52 (lbs) 5.68 (ksg)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
5 boxes	15,000pcs	15.65 (lbs) 7.10 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
6-boxes	18,000pcs	18.78 (lbs) 8.52 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	

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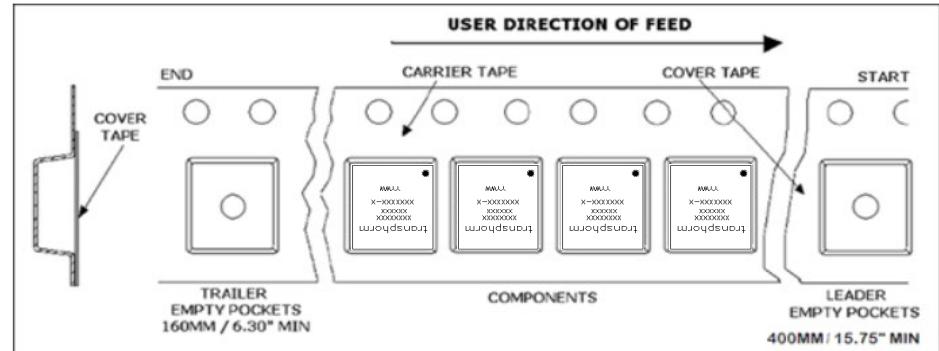
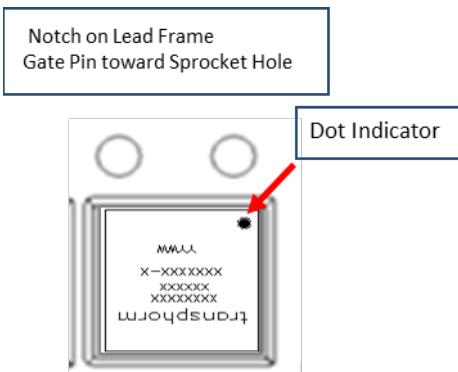
3. GEN IV 5X6mm PQFN TAPE & REEL INFORMATION

Part I: Performance Product Orientation



- Leader Empty Pockets: 85
- Trailer Empty Pockets: 40
- Quantity per Reel: 4,000pcs

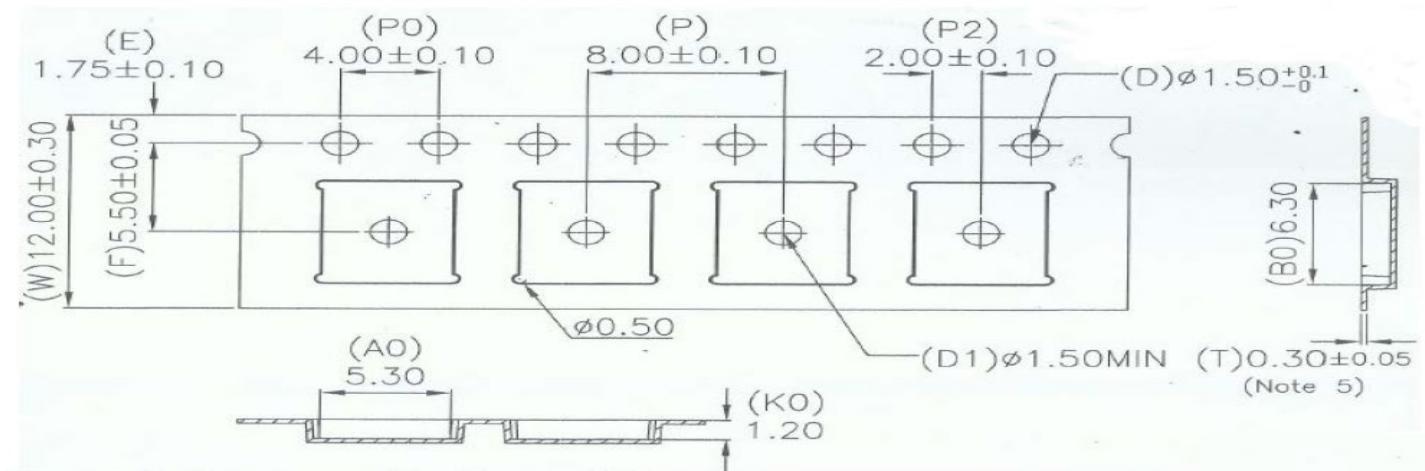
Part II: Industry Standard Product Orientation



- Leader Empty Pockets: 85
- Trailer Empty Pockets: 40
- Quantity per Reel: 4,000pcs

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Part III: Carrier Tape Dimension



Ao = 5.30

Notes:

Bo = 6.30

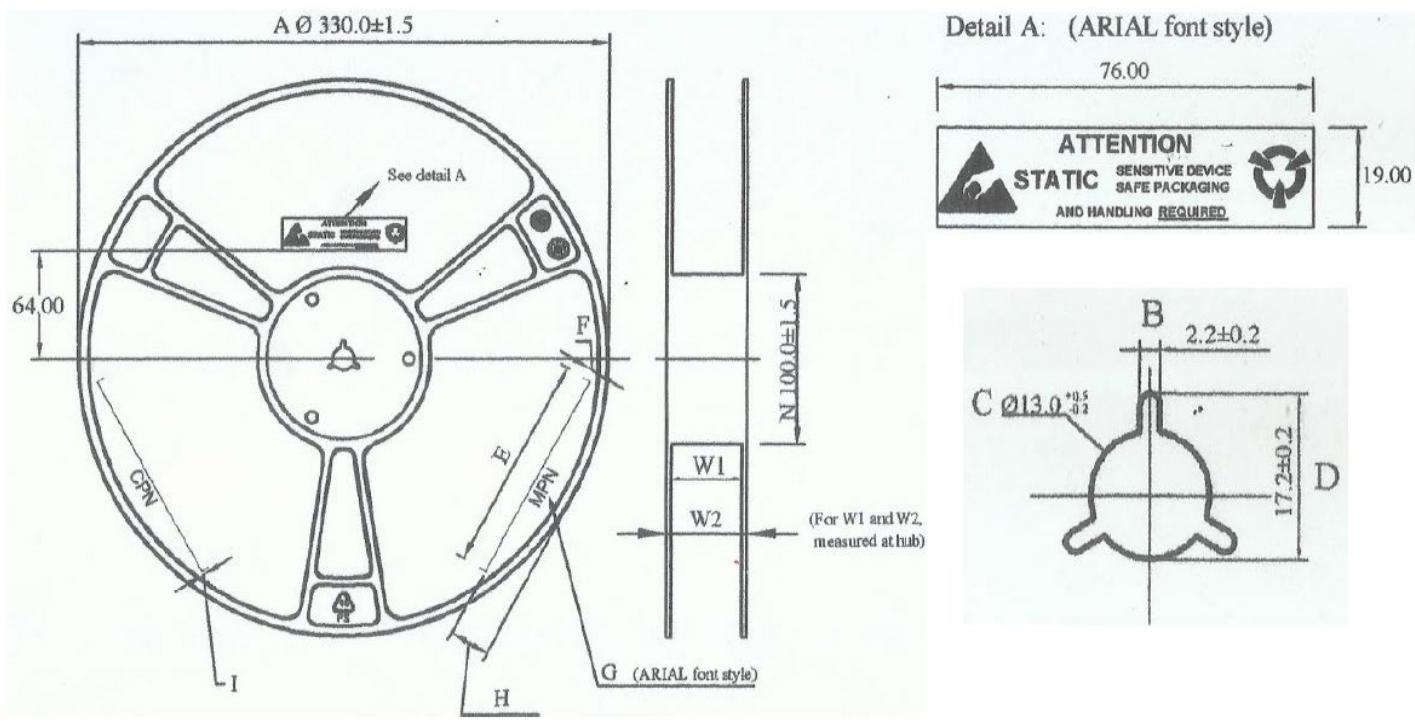
- 10 Sprocket Hole pitch cumulative tolerance ±0.2
- Camber in compliance with EIA 481
- Pocket position relative to Sprocket Hole measured as true position of Pocket not Pocket Hole

Ko = 1.20

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Part IV: Reel Dimension

- Reel Size: 330mm



PRODUCT NAME	U-PAK P/N	W1	W2 (Max)	E	F	G	H	I
I3# 100*12mm Plastic Reel	MUR-223-BX	12.40 ^{+2.0} _{-0.0}	18.40	130±1.0	5±1.0	8±1.0	25±1.0	0.4±0.5

Color based on customer requirement.
Material: HIPS (High Impact Polystyrene)

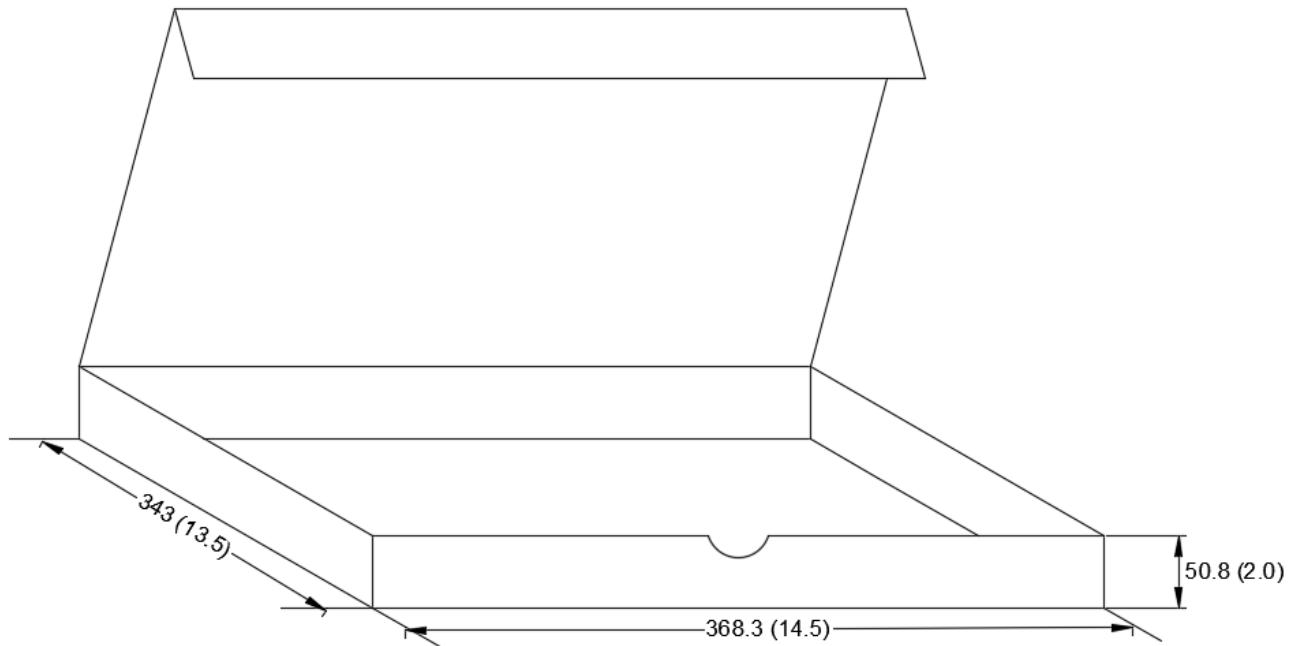
Need Ultrasonic Welding.

Surface Resistance: $10^5 \sim 10^6 \Omega/\square$

All dimensions in millimeters unless otherwise specified.
Text with ARIAL font style.

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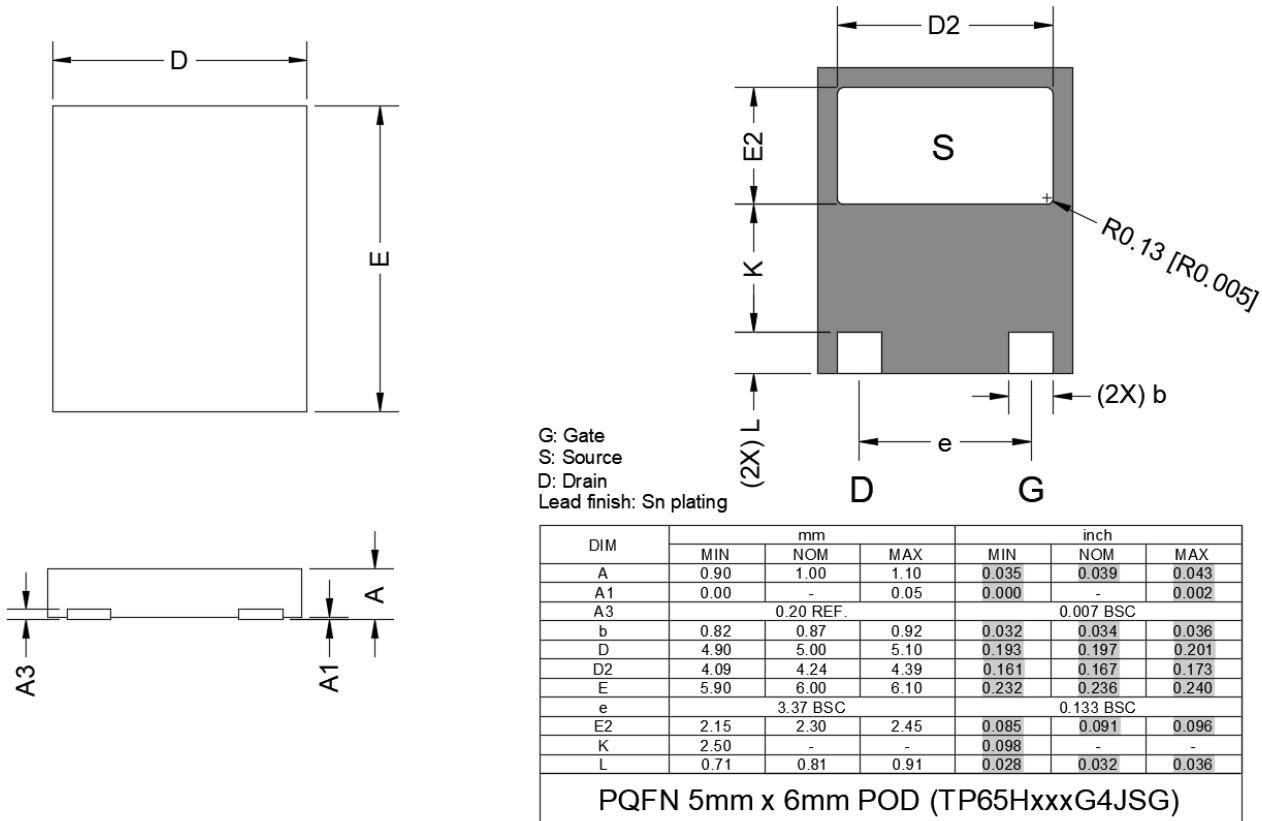
Part V: Box Size



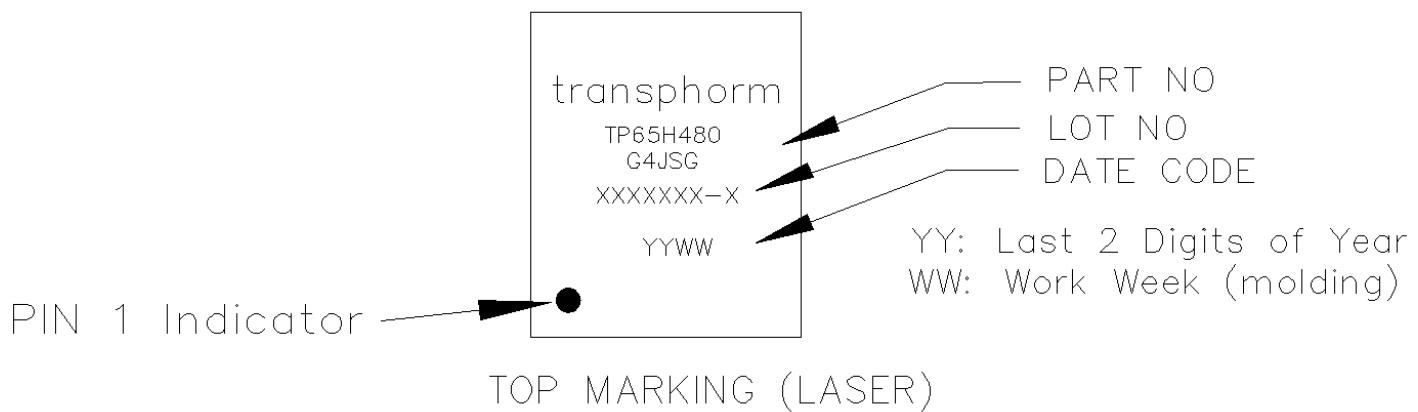
Dimensions are in millimeter (inches are in brackets for reference only)

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Part VI: Package POD for Performance Version & Laser Marking Sample

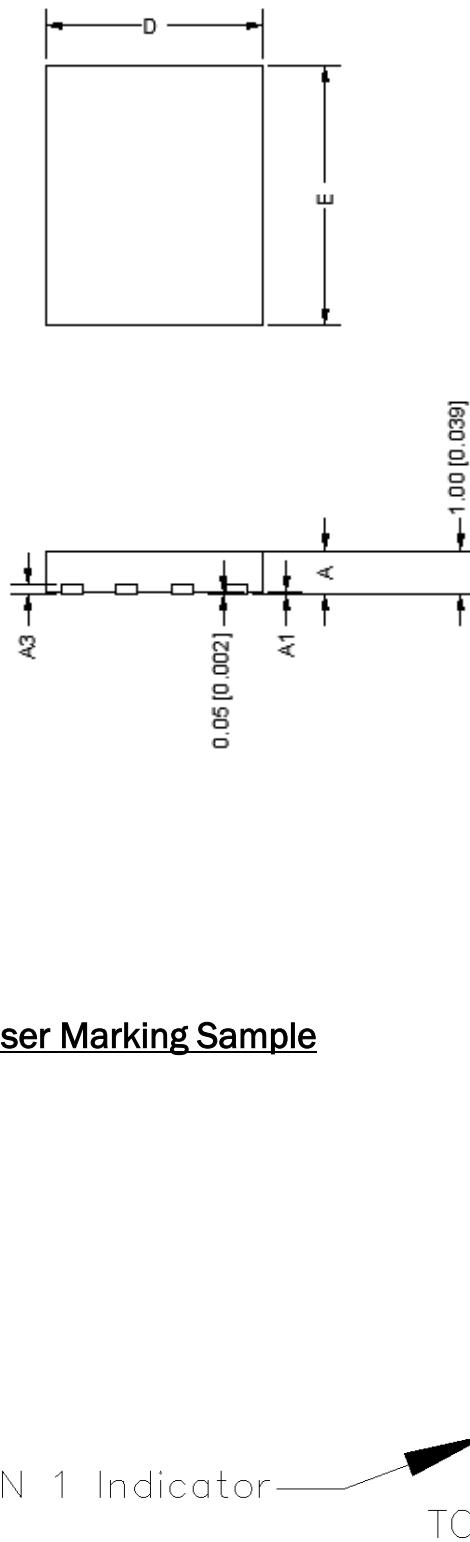


Laser Marking Sample



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Part VII: Package POD for Industry Standard LSGB Version & Laser Marking



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Part VIII: Tape and Reel Packing Information



Tape and Reel Shielding Bag

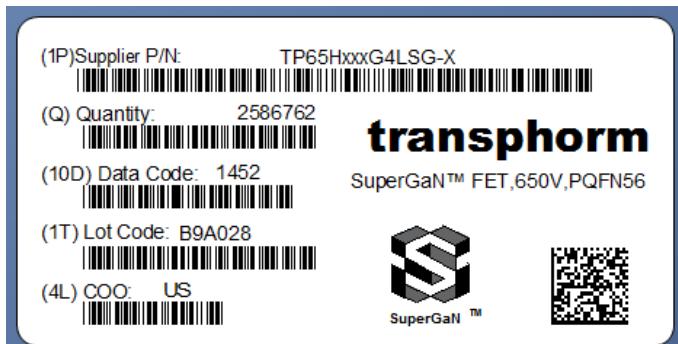
- 4,000units/reel
- Maximum 1 reel/box
- Place Tape and Reel inside moisture barrier bag
- Seal moisture bag

Part IX: Internal Shipping Box Information



Internal Shipping Box

- Tape internal box closed using ESD Label.
- Place Internal Shipping Label.



Internal Shipping Box Label

Supplier P/N: Transphorm Part Number

Quantity: Quantity contained inside the box

Date Code: YYWW

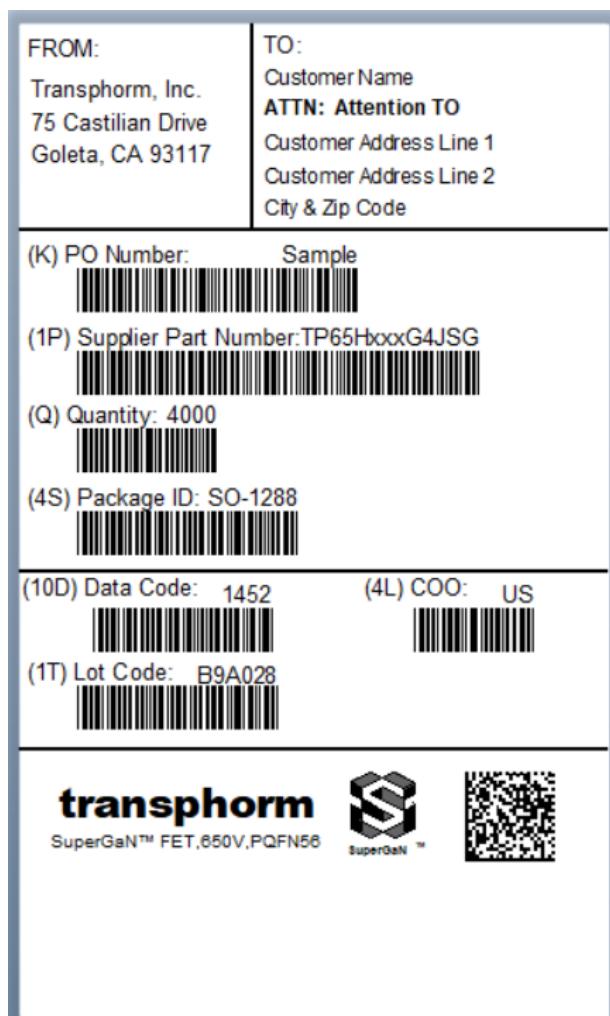
Lot Code: Assembly Lot Number

COO: Country of Origin

2D Barcode: Above information encoded

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Part X: External Shipping Box Information



External Shipping Box

- Internal Shipping Boxes inside External Shipping Box
- Number of Internal Boxes ranges from 2 to 6
- Place External Shipping Label

External Shipping Box Label

From : Transphorm shipping address

To : Customer name, Attention TO, and address number

PO Number : Customer Purchase Order Number

Supplier Part Number : Transphorm Part Number

Quantity : Total product quantity contain in external shipping box

Package ID : Transphorm Assigned Number

Date Code: YYWW

Lot Code: Assembly Lot Number

COO: Country of Origin

2D Barcode: Above information encoded

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Shipping Box Size and Weight				
Shipment	Units	Weight	Size	Comments
1 box	4,000pcs	2.47 (lbs) 1.12 (kgs)		FedEx Shipping box
3 boxes	12,000pcs	7.41 (lbs) 3.36 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
4 boxes	16,000pcs	9.88 (lbs) 4.48 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
5 boxes	20,000pcs	12.35 (lbs) 5.60 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	
6-boxes	24,000pcs	14.82 (lbs) 6.72 (kgs)	15.25 in x 13.5 in x 15.5 in 387.35 mm x 342.9mm x 393.7mm	

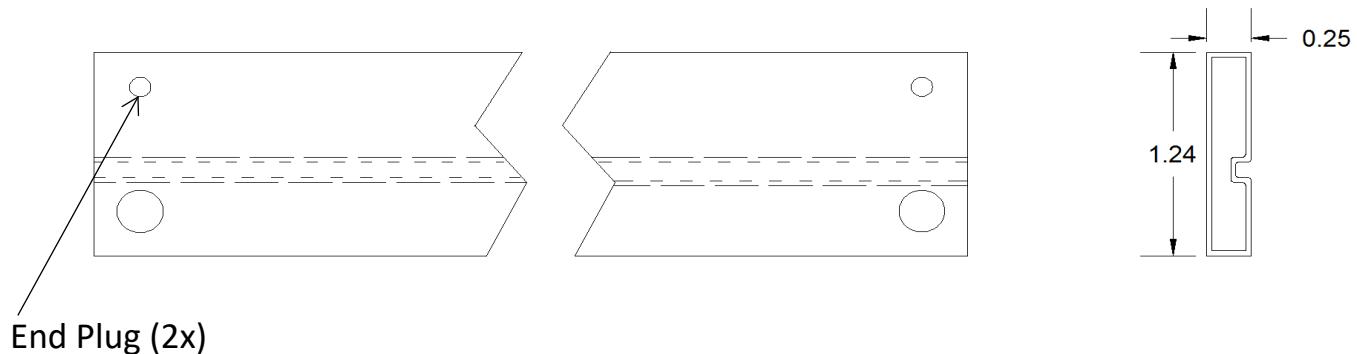
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4. TO-220 Shipping Information

Part I: Shipping Tube

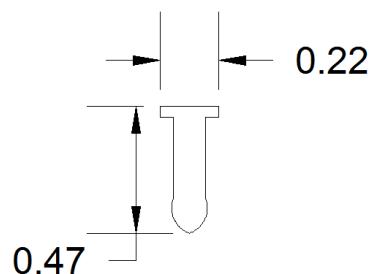
Tubes

Length = 21 Inches



End Plug

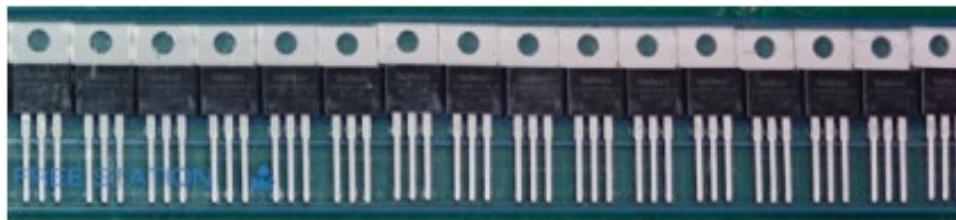
Color = Black



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Part II: Tube Quantity

- 50 units per tube.



- Maximum tube per anti-static shielding bag and inner box is 20 tubes or 1000 units per inner box.



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Part III: Box Size

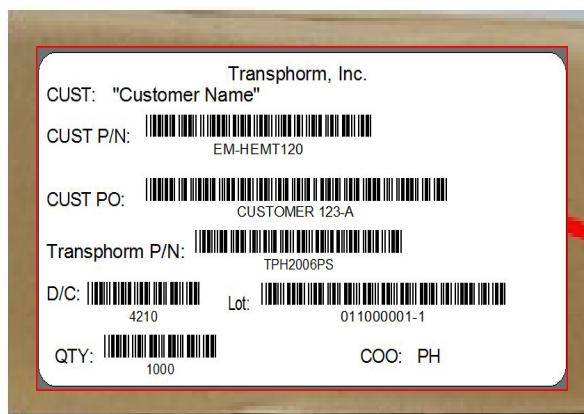


Dimensions are in millimeter (inches are in brackets for reference only)

Part IV: Internal Shipping Box Information

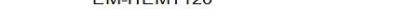
Internal Shipping Box

- Tape internal box closed using ESD Label.
- Place Internal Shipping Label.



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Internal Shipping Box Label

Transphorm, Inc.	
CUST: "Customer Name"	
CUST P/N:	 EM-HEMT120
CUST PO:	 CUSTOMER 123-A
Transphorm P/N:	 TPH2006PS
D/C:  4210	Lot:  011000001-1
QTY:  1000	COO: PH

Description:

Size: 4" x 2"

CUST: "Customer Name"

CUST P/N: "Customer Part Number"

Transphorm P/N: “Transphorm Part Number”

D/C: “Date Code”

QTY: “Quantity unit contained in inner box”

COO: “Country of Origin”

Part V: External Shipping Box Information

External Shipping Box

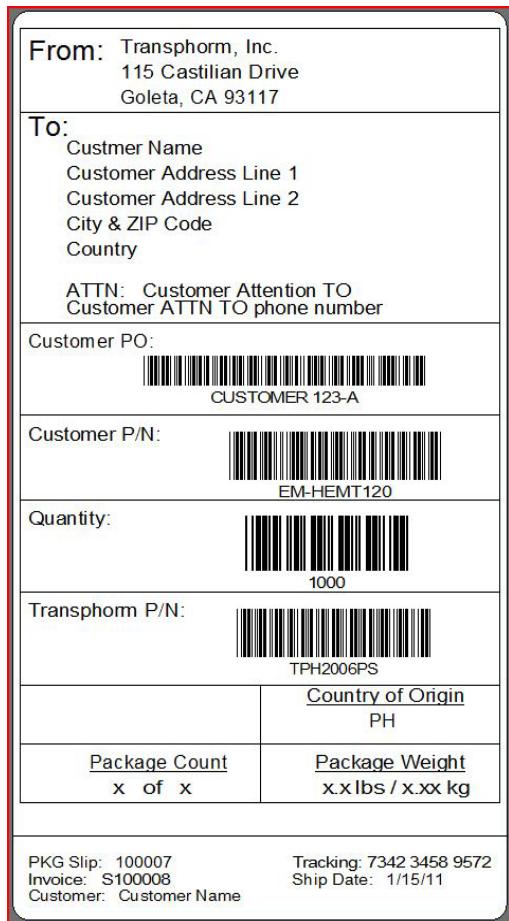
- Bubble sheets on bottom and on both sides of the master box then place 6 inner boxes inside the master box.
 - For 4 inner boxes or less, use small master box.
 - Master box shipping label as shown below and seal the master box following the standard operating procedure.



From:	Transphorm, Inc. 115 Caribbean Drive Goleta, CA 93117
To:	Customer Name Customer Address Line 1 Customer Address Line 2 City & ZIP Code Country
ATTN: Customer Attention T.O. Customer ATTN: T.O. phone number	
Customer PO #	 CLUSTOANH123A
Customer I/P/N #	 EMHDHM1520
Quantity:	 1000
Transphorm I/P/N #	 TPN00009PS
Country of Origin Peru	
Package Count x of x	Package Weight x x lbs / x x kg
PICKS# 1000001 Inv# 1000008 Customer: Customer Name	
Tracking: 202415889672 Ship Date: 11/15/11	

Application Note 0012

External Shipping Box Label



Description:

Size: 4" x 6"

From: Transphorm Shipping address

To: Customer name, address attention to and phone number

Customer PO: Customer Purchase Order Number

Customer P/N: Customer Part Number

Quantity: Total product quantity contains in external shipping box

Transphorm P/N: Transphorm Product Number

Country of Origin: Country of Origin where product was manufactured.

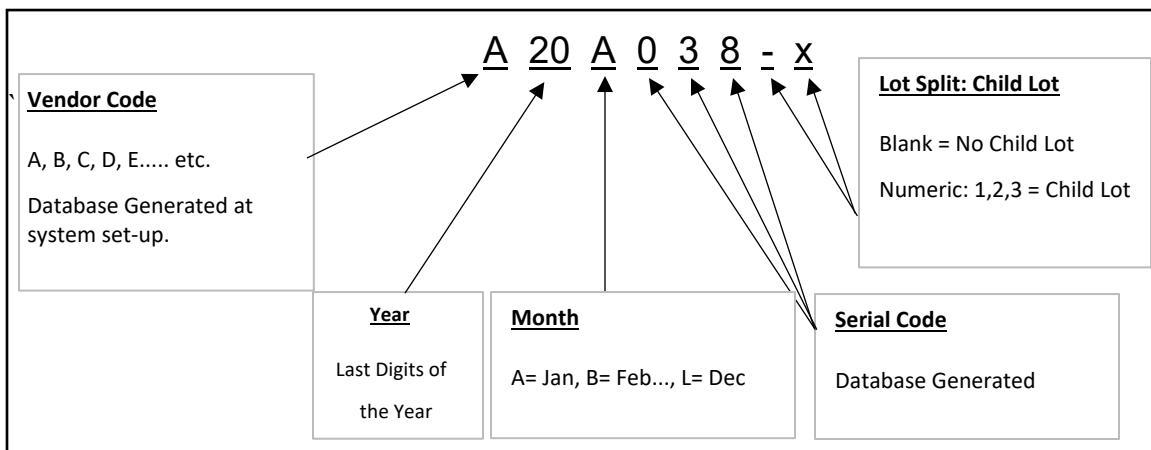
Package Count: Number of External Shipping boxes contained in shipment

Package Weight: Weight of packed External Shipping Box

Application Note 0012

Shipment	Units	Weight	Size	Comments
1pack	1000pcs	2.99 (kgs) 6.61(lb)	575mm X 140mm X 73mm 22.6 in x 5.51in x 2.87 in	one inner box
2packs	2000pcs	6.7 (kgs) 14.77(lb)	610mm x 310mm x 190mm 24 in x 12.2 in x 7.5 in	master box with two inner boxes
4packs	4000pcs	12.25 (kgs) 27.00(lb)	610mm x 310mm x 190mm 24 in x 12.2 in x 7.5 in	master box with four inner boxes
6packs	6000pcs	18.24 (kgs) 40.21(lb)	610mm x 310 mm x 340mm 24 in x 12.2 in x 13.4 in	master box with six inner boxes

Part VI: Assembly Lot Number Information

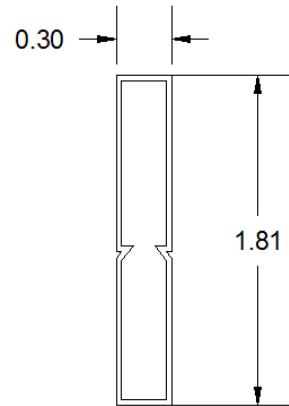
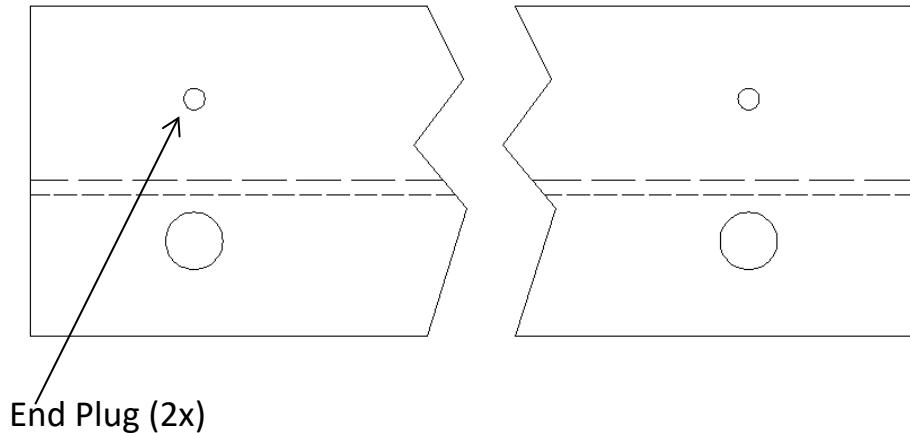


5. TO-247 Shipping Information

Part I: Shipping Tube

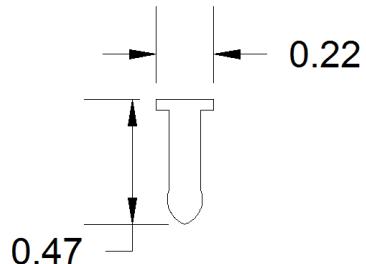
Tubes

Length = 21 Inches



End Plug

Color = Black



Application Note 0012

Part II: Tube Quantity

- 30 units per tube.

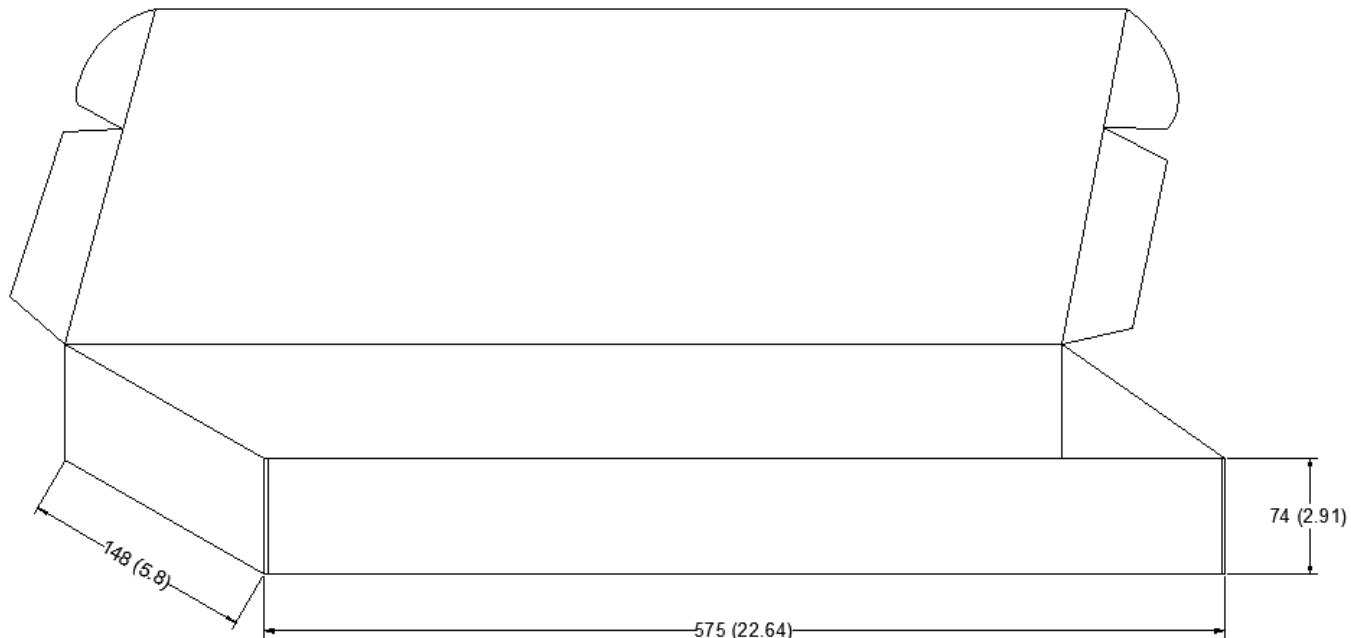


- Maximum tube per anti-static shielding bag and inner box is 15 tubes or 450 units per inner box.



Application Note 0012

Part III: Box Size

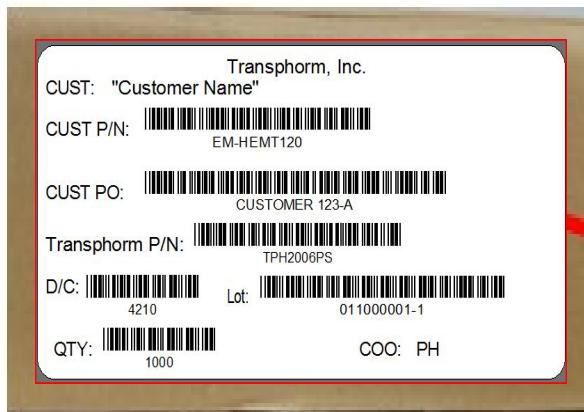


Dimensions are in millimeter (inches are in brackets for reference only)

Part IV: Internal Shipping Box Information

Internal Shipping Box

- Tape internal box closed using ESD Label.
- Place Internal Shipping Label.



Part V: External Shipping Box Information

Application Note 0012

External Shipping Box

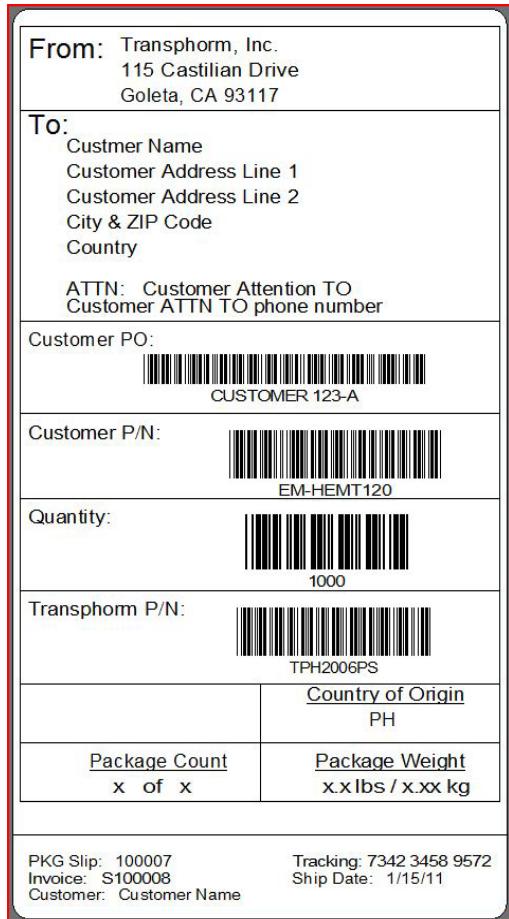
- Bubble sheets on bottom and on both sides of the master box then place 6 inner boxes inside the master box.
- For 4 inner boxes or less, use small master box.
- Master box shipping label as shown below and seal the master box following the standard operating procedure.



From:	Transphorm, Inc. 115 Castilian Drive Goleta, CA 93117		
To:	Customer Name: Customer Address Line 1 Customer Address Line 2 City & ZIP Code Country		
ATTN:	Customer Attention ID Customer ATTN ID phone number		
Customer PO:	Customer PO 		
Customer P/N:	Customer P/N 		
Quantity:	Quantity 1000		
Transphorm P/N:	Transphorm P/N 		
Country of Origin	(In)		
Package Count:	Package Weight: x.x lbs / x.xx kg		
POL Slip:	1000001	Tracking:	FMAZ 3488 9672
Invoice:	91000008	Ship Date:	2/15/11
Customer:	Customer Name		

Application Note 0012

External Shipping Box Label



Description:

Size: 4" x 6"

From: Transphorm Shipping address

To: Customer name, address attention to and phone number

Customer PO: Customer Purchase Order Number

Customer P/N: Customer Part Number

Quantity: Total product quantity contains in external shipping box

Transphorm P/N: Transphorm Product Number

Country of Origin: Country of Origin where product was manufactured.

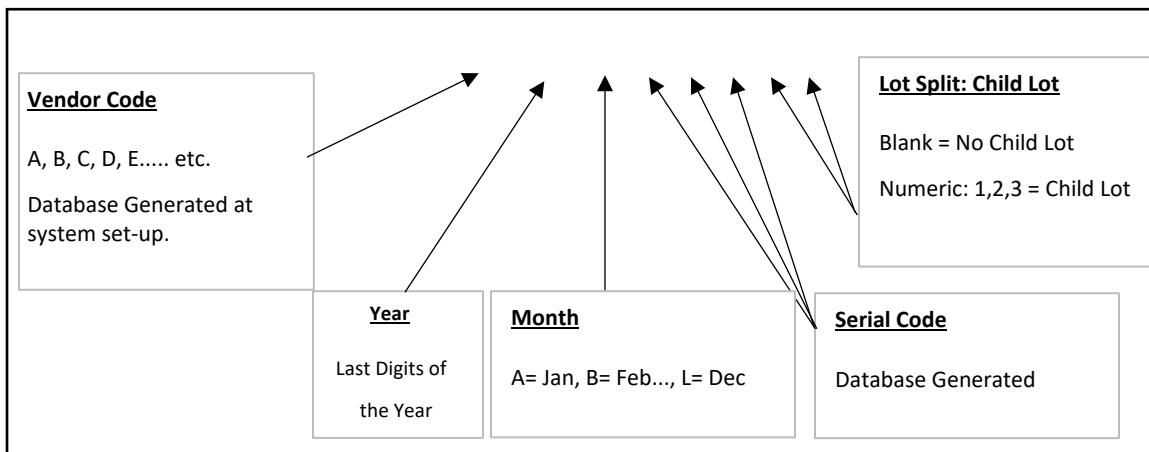
Package Count: Number of External Shipping boxes contained in shipment

Package Weight: Weight of packed External Shipping Box

Application Note 0012

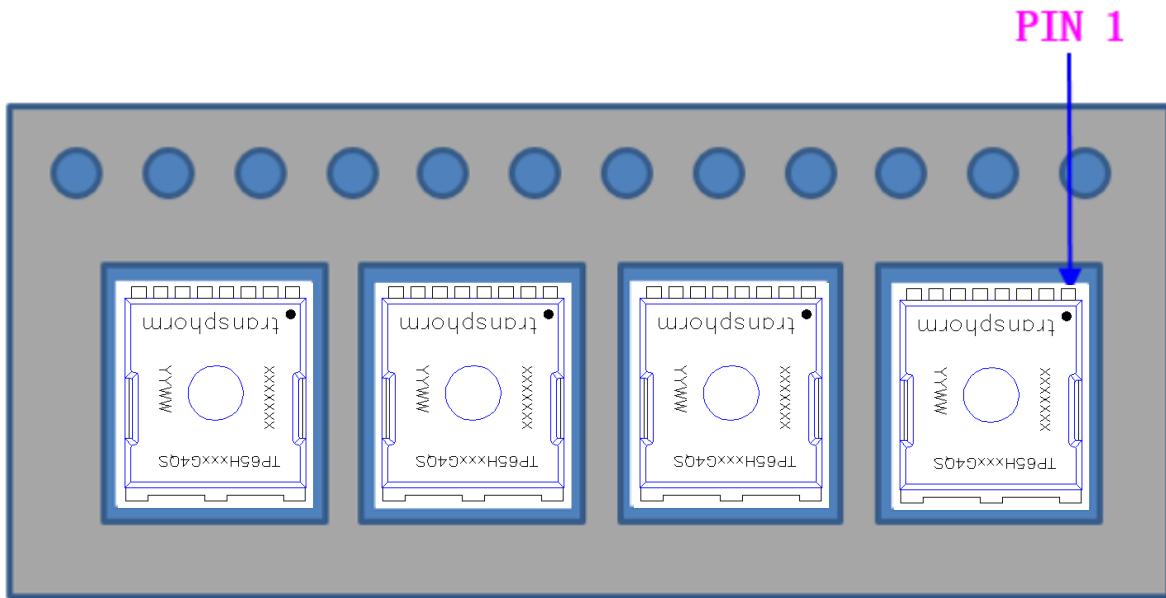
Shipment	Units	Weight	Size	Comments
1pack	450pcs	3.90 (kgs) 8.60(lb)	575mm X 140mm X 73mm 22.6 in x 5.51in x 2.87 in	one inner box
2packs	900pcs	8.05 (kgs) 17.75(lb)	610mm x 310mm x 190mm 24 in x 12.2 in x 7.5 in	master box with two inner boxes
4packs	1,800pcs	15.85 (kgs) 34.95(lb)	610mm x 310mm x 190mm 24 in x 12.2 in x 7.5 in	master box with four inner boxes
6packs	2,700pcs	23.65 (kgs) 52.15(lb)	610mm x 310 mm x 340mm 24 in x 12.2 in x 13.4 in	master box with six inner boxes

Part VI: Assembly Lot Number Information



6. TOLL TAPE & REEL INFORMATION

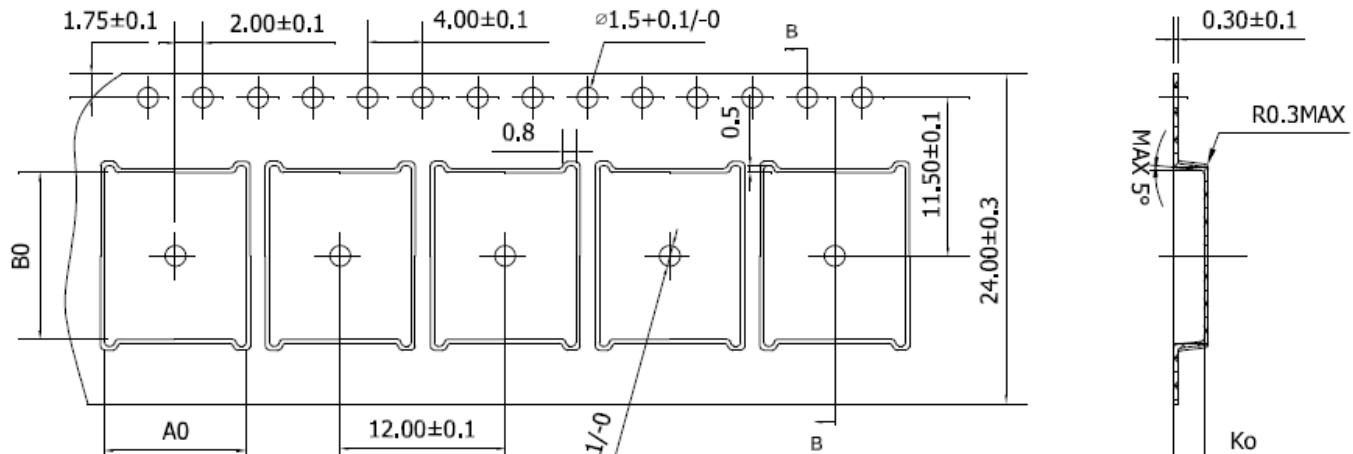
Part I: Product Orientation



- -Leader Empty Pockets: 400mm / 35 empty pocket
- -Trailer Empty Pockets: 160mm / 15 empty pocket
- -Quantity per Reel: 2,000pcs

Application Note 0012

Part II: Carrier Tape Dimension

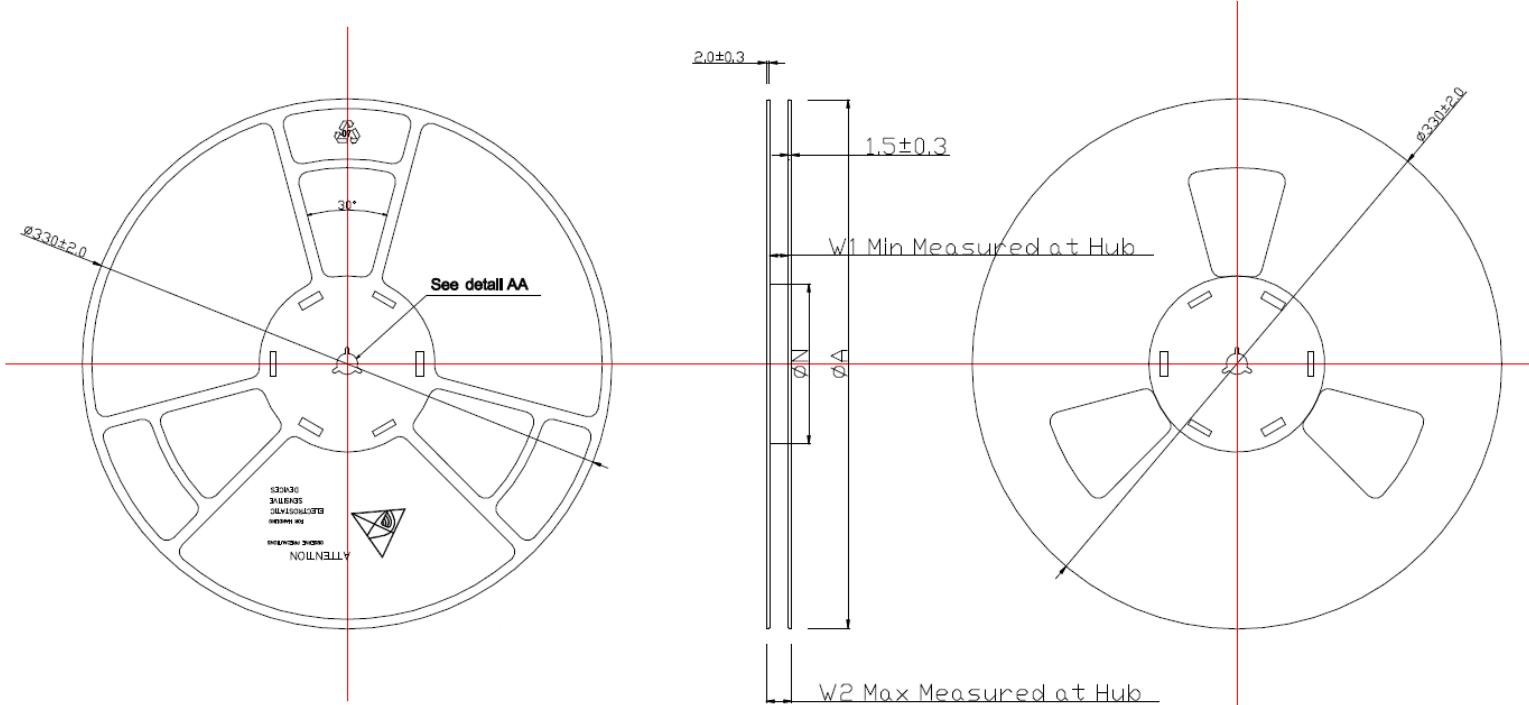


$$\begin{aligned} Ao &= 10.30 \pm 0.1 \\ Bo &= 12.10 \pm 0.1 \\ Ko &= 2.70 \pm 0.1 \end{aligned}$$

Application Note 0012

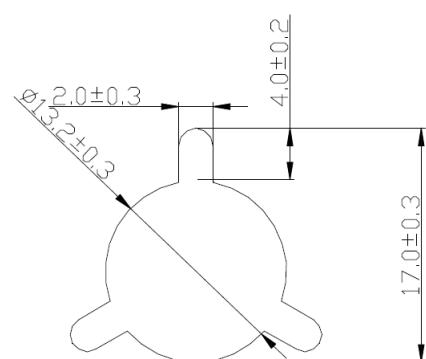
Part III: Reel Dimension

- Reel Size: 330mm
- Hub Width: 24mm



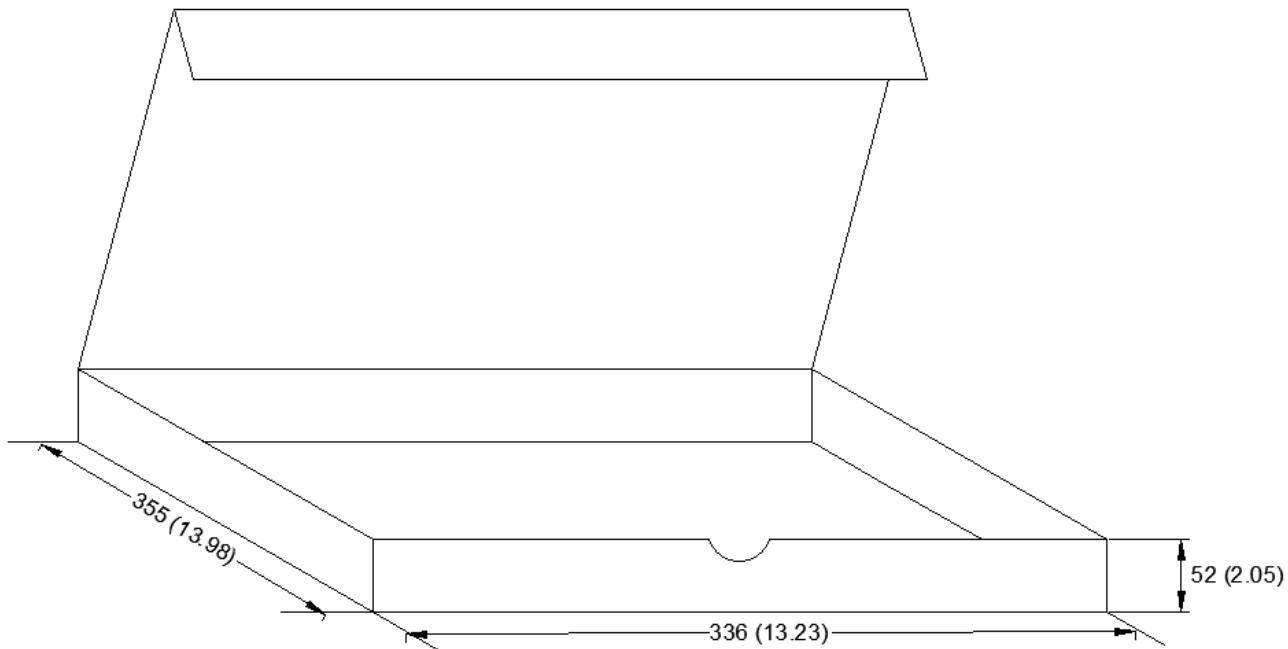
PRODUCT SPECIFICATIONS

TYPE WIDTH	$\varnothing A$	$\varnothing N$	W1 (Min)	W2 (Max)
12MM	$330\text{mm} \pm 2.0$	$100\text{mm} \pm 1.0$	12.4mm	19.4mm
16mm	$330\text{mm} \pm 2.0$	$100\text{mm} \pm 1.0$	16.4mm	23.4mm
24MM	$330\text{mm} \pm 2.0$	$100\text{mm} \pm 1.0$	24.4mm	31.4mm
32MM	$330\text{mm} \pm 2.0$	$100\text{mm} \pm 1.0$	32.4mm	39.4mm
44MM	$330\text{mm} \pm 2.0$	$100\text{mm} \pm 1.0$	44.4mm	51.4mm



Application Note 0012

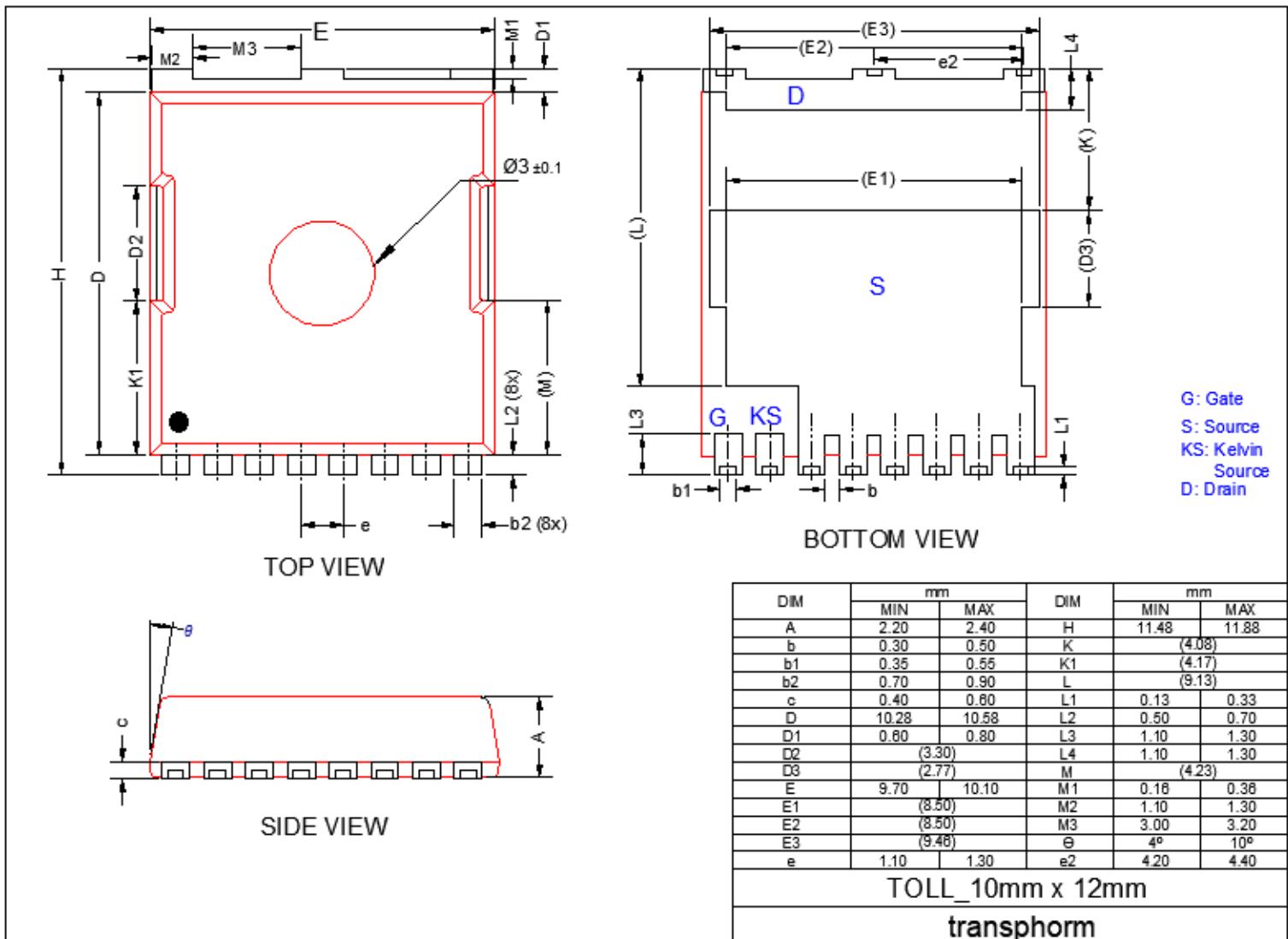
Part IV: Box Dimension



Dimensions are in millimeter (inches are in brackets for reference only)

Application Note 0012

Part V: Package POD



Application Note 0012

Part VI: Tape and Reel Packing Information



Tape and Reel Shielding Bag

- 2,000 units / reel

Maximum 1 reel / box

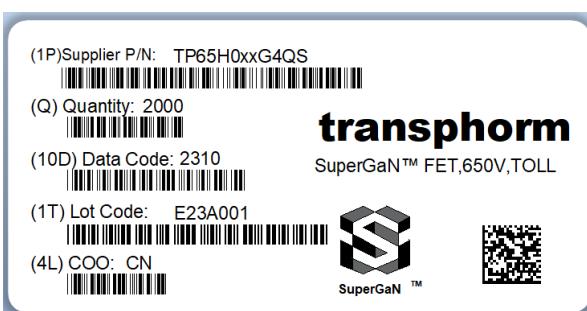
- Place Tape and Reel inside moisture barrier bag
- Seal moisture bag

Part VII: Internal Shipping Box Information



Internal Shipping Box

- Tape internal box closed
- Place Internal Shipping Label



Internal Shipping Box Label

Supplier P/N: Transphorm Part Number

Quantity: Quantity contained inside the box

Date Code: YYWW

Lot Code: Assembly Lot Number

COO: Country of Origin

2D Barcode: Above information encoded

Application Note 0012

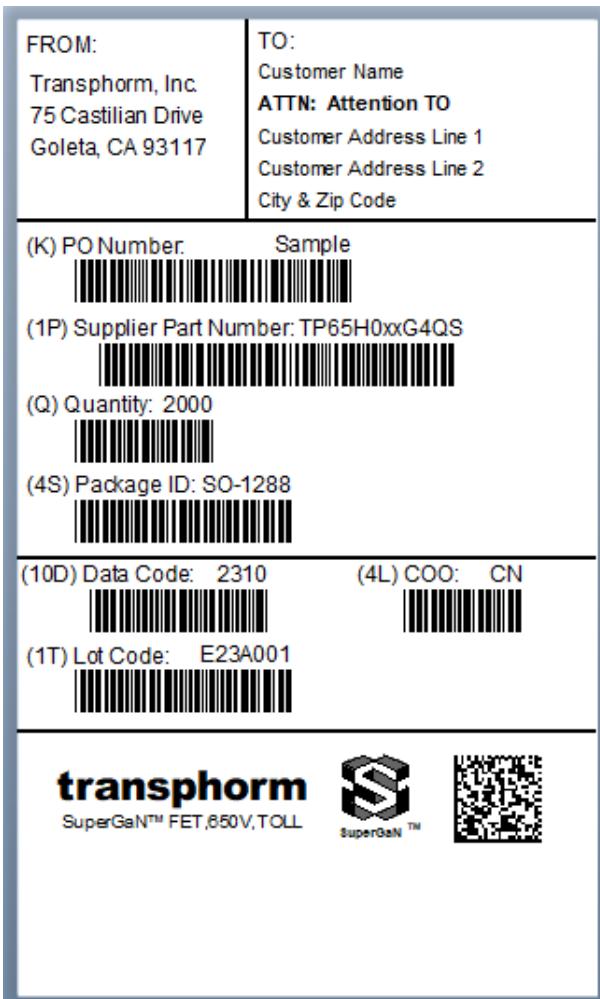
Part VIII: External Shipping Box Information



External Shipping Box

- Internal Shipping Boxes inside External Shipping Box
- Number of Internal Boxes ranges from 1 to 3
- Place External Shipping Label

Application Note 0012



External Shipping Box Label

- **From:** Transphorm shipping address
- **To:** Customer name, Attention TO, and address number
- **PO Number:** Customer Purchase Order Number
- **Supplier Part Number:** Transphorm Part Number
- **Quantity:** Total product quantity contain in external shipping box
- **Package ID:** Transphorm Assigned Number
- **Date Code:** YYWW
- **Lot Code:** Assembly Lot Number
- **COO:** Country of Origin
- **2D Barcode:** Above information encoded

Shipping Box Size and Weight				
Shipment	Units	Weight	Size	Comments
1 box	2,000pcs	6.2 (lbs.) 2.81 (kgs.)		FedEx Shipping box
2 boxes	4,000pcs	12.4 (lbs.) 5.62 (kgs.)	14.05 in x 14.84 in x 7.08 in 357 mm x 377mm x 180mm	
3 boxes	6,000pcs	18.6 (lbs.) 8.48 (kgs.)	14.05 in x 14.84 in x 7.08 in 357 mm x 377mm x 180mm	