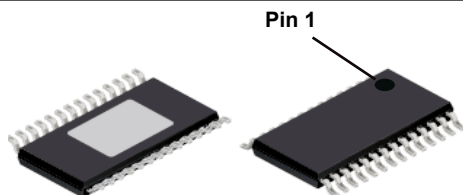
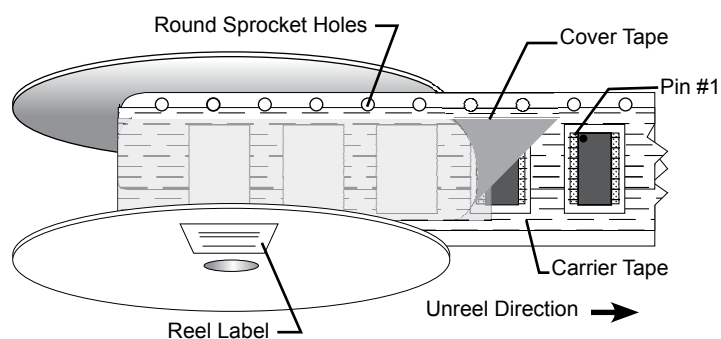


LP-28 Package, TR Suffix

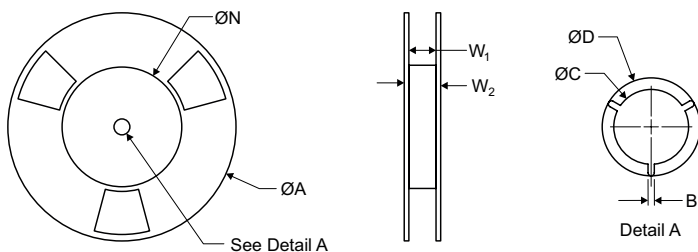
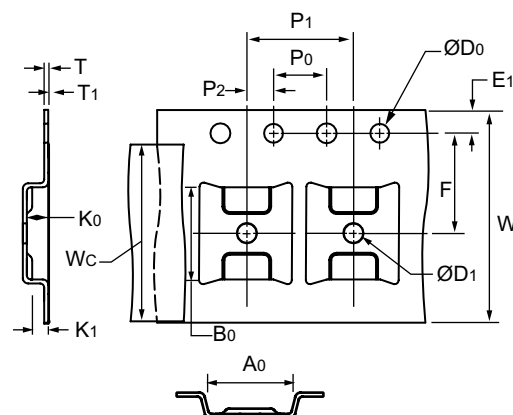


Terminals: 28, gull-wing
Exposed thermal pad
JEDEC MO-153 AET



- Embossed tape and reel
- 4000 pieces per 13 in. reel
- 15 min. trailer pockets
- 50 min. leader pockets
- Exposed pad face down in tape (live bug)
- Pin 1 on trailing device edge, sprocket hole side

Leader pockets are the first off the reel when the tape is unreeled for dispensing devices. Trailer pockets are the last pockets off the reel when unreeled for dispensing devices.



Access hole and hub con guration may vary at supplier discretion within limits shown.

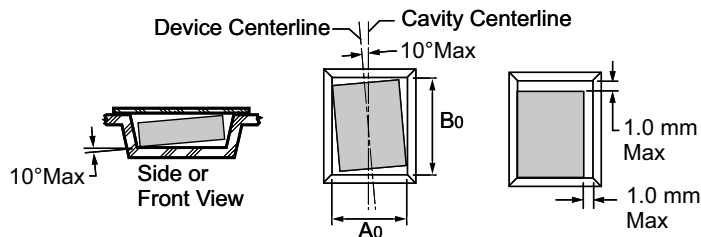
Dimensions in mm

Type	A	B	C	D	N
Plastic 13 in.	330 (Nom)	1.5 (Min)	13 ^{+0.5} _{-0.2}	20.2 (Min)	102 (Nom)
W₁ (inside, at Hub)			16.4 (Nom)		
W₂ (outside, at Hub)			22.4 (Max)		

Reference EIA 481

Carrier Tape			Cover Tape
W: 16.00	D ₀ : 1.50	A ₀ : 6.80	W _C : 13.3 T ₁ : 0.1(Max)
E ₁ : 1.75	P ₀ : 4.00	B ₀ : 10.20	
F: 7.5	P ₁ : 8.00	K ₀ : 1.60	
T: 0.30	P ₂ : 2.00	K ₁ : 1.20	
		D ₁ : 1.60	

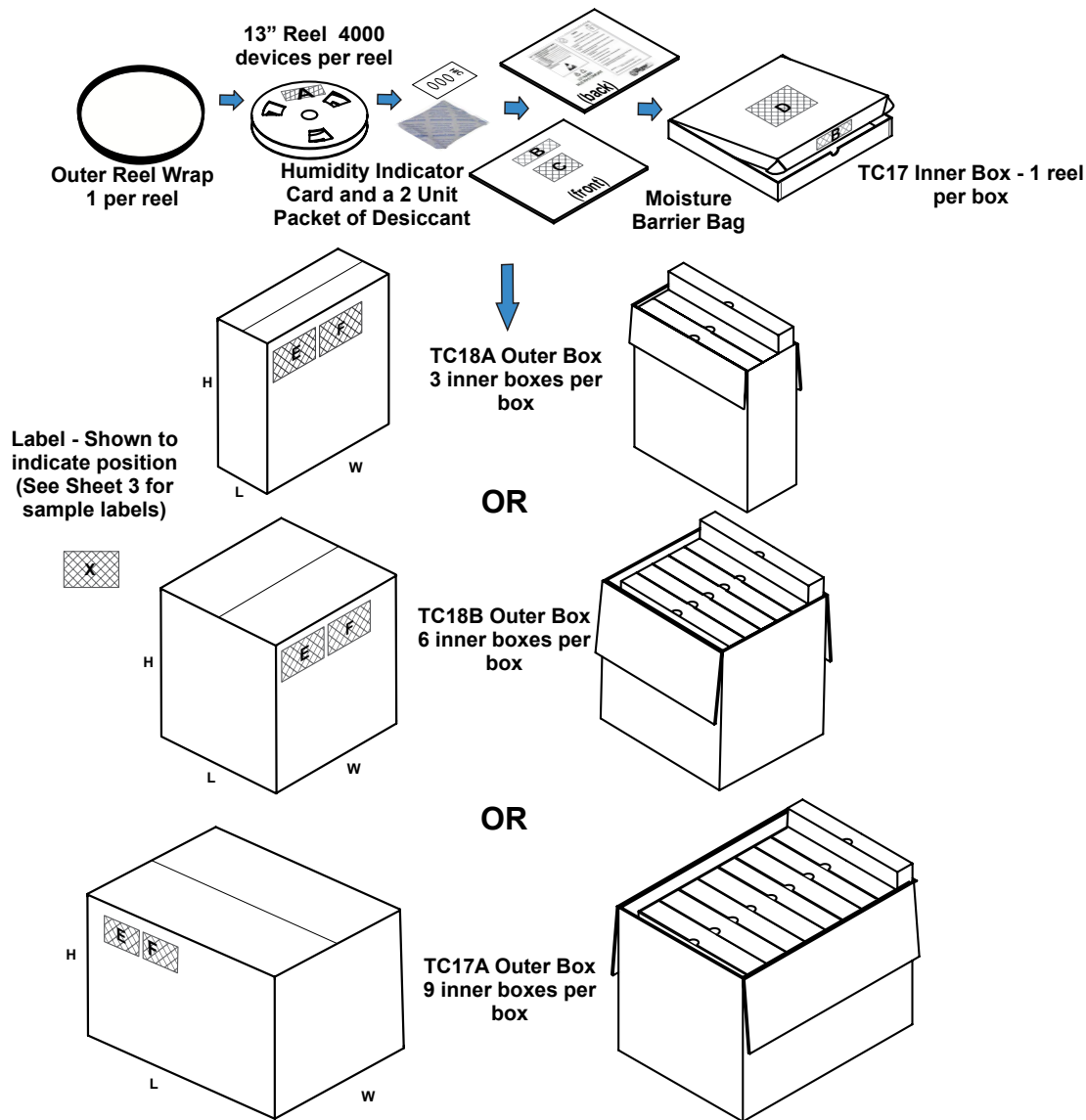
1. Pocket centerlines to cavity center, not to pocket detection hole.
2. A₀ and B₀ measured 0.3 mm above bottom of pocket.
3. Reference EIA 481.



Reference EIA 481

Carton Details *

LP-28 Package, TR Suffix



Carton Dimensions (mm)

Type	Length	Width	Height	Inner Carton Standard Quantity	Outer Carton Standard Quantity
TC17	351	364	56	4,000	
TC18A	188	380	365		12,000
TC18B	380	368	365		24,000
TC17A	536	403	400		36,000


* Carton Details pertain only to Full Standard Increments. Partial orders will only be provided for samples or due to exceptional circumstances. Partial orders may not be packed according to Carton Details but may require protective filler, empty inner boxes or other packing modifications.

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Labels

- Examples Shown for Content - Labels Not to Scale
- As required, the compliance symbols on the labels will meet the ship to country regulations


Production Reel Label [A]

	Part No:	XXXXXXXXXXXXXXXXXXXXX	Date:	20150106
	Catalog:	XXXXXXXXXXXXXXXXXXXXX-X	MS-Level:	2
	Qty:	XXXX	Moisture Sensitive Device	
	Lot 1:	1234567ABCD	Qty 1:	XXXX
	Lot 2:	N/A	Qty 2:	0




Peak Re ow: 260C

 Reel  


Moisture Barrier Bag / Box Flap Label [B]



	Part No:	XXXXXXXXXXXXXXXXXXXXX	Date:	20150106
	Catalog:	XXXXXXXXXXXXXXXXXXXXX-X	MS-Level:	2
	Qty:	XXXX	Moisture Sensitive Device	
	Lot 1:	1234567ABCD	Qty 1:	XXXX
	Lot 2:	N/A	Qty 2:	0

Peak Re ow: 260C








  

1D Production Label [C]






Allegro MicroSystems, LLC		
Cust PN:	XXXXXXXXXXXX	
Mfr PN:	XXXXXXXXXXXX	
Alg In:	XXXXXXXXXXXX	
Lot 1:	9999999XXXX	Qty 1: 1000
Lot 2:	N/A	Qty 2: 0
D/C:	0101	Total Qty: 1000


Bag  

Inner Carton Label [D]


Allegro MicroSystems LLC		
(1K) Sales Order Number XXXXX	(P) Customer Part Number XXXXX	  
(9D) Date Code XXXXX	(1T) Lot Number XXXXX	
(16K) Delivery XXXXX	(1P) Manufacturer Part # XXXXX	
(K) Purchase Order Number XXXXX		
  		
		
Manufacturer ALLEGRO MICROSYSTEMS LLC		Made in XXXXXX

Outer Carton Label [E]

Allegro MicroSystems LLC		
(1K) Sales Order Number XXXXX	(P) Customer Part Number XXXXXXXXXXXX	
(16K) Delivery XXXXX	(Q) Quantity XXXXX	
(1P) Manufacturer Part # XXXXX		
(K) Purchase Order Number XXXXX		
  		
		
Manufacturer ALLEGRO MICROSYSTEMS LLC		Made in XXXXXX



Outer Carton Address Label [F]

ALLEGRO MICROSYSTEMS, LLC 115 NORTHEAST CUTOFF WORCESTER, MA 01606	
ALLEGRO MICROSYSTEMS, LLC 115 NORTHEAST CUTOFF WORCESTER, MA 01606	
Package 1/1	



LP-28 Package, TR Suffix

Revision History

Revision No.	Date	ECN No.	Description
OI	9/8/2015	1508036	ORIGINAL RELEASE
1	7/29/2016	CR-2016-02180	Update label format, update desiccant to single pack, update document number to new format. Add disclaimer for compliance symbols on labels.
2	1/13/2017	CR-20167-00182	Update to new format. Addition of address label.

This document provides reference information that can be used to identify leadform and packing options offered by Allegro MicroSystems, LLC. This information is for reference only, and not for tooling use. This information is subject to change without notice. Packing and labelling for shipment may vary with device type, quantities, and other conditions; specifications may vary with contract terms and availability.

Packing options vary according to the individual device being offered. Refer to the device datasheet (visit our website at: www.allegromicro.com) for a listing of packing options for that device. Not all options are available for any particular package designation or device type, and provision of certain configurations may be subject to minimum volume or NCNR (noncancellation, nonreturn) limitations. Contact your local Allegro field service representative for additional information.

For more information on the physical appearance of device packages and leadforms, refer to the device datasheet or the application note *Allegro Package Designations* on the Allegro website.

When applicable, references are provided to industry standards, such as for tape and reel specifications standard package outline designations. These references are provided for informational purposes only, and do not necessarily indicate full conformity with that standard in all respects.

No dimensional tolerances are guaranteed or implied for bulk packing.

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