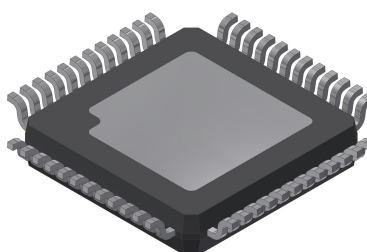
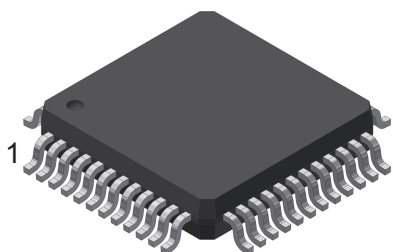
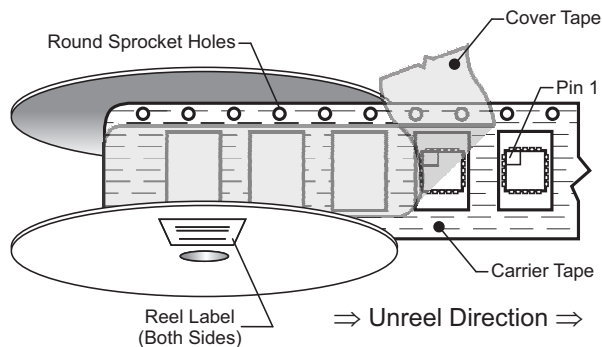


JP-48 Package, TR Suffix

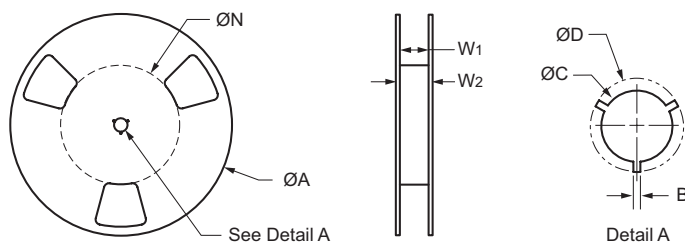


Terminals: 48, gull wing
Square case, LQFP
Exposed thermal pad
JEDEC MS-026 BBCHD



- Embossed tape and reel
- 1500 devices per 13 in. reel
- 25 min. trailer pockets
- 75-80 leader pockets
- Pin 1 on trailing 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.

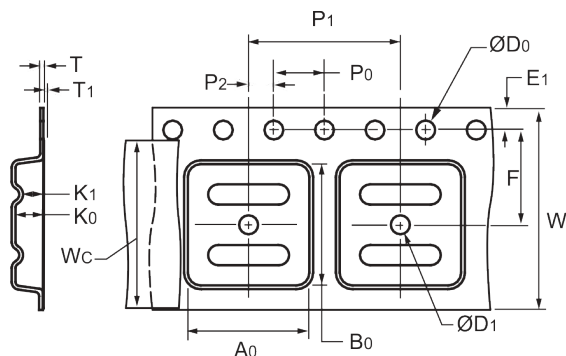


Access hole and hub configuration may vary at supplier discretion within limits shown

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 (Min)		
W₂ (outside, at Hub)			22.4 (Max)		

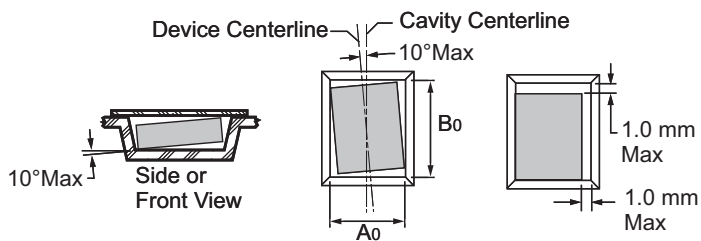
Reference EIA 481



Dimensions in mm, may vary with supplier

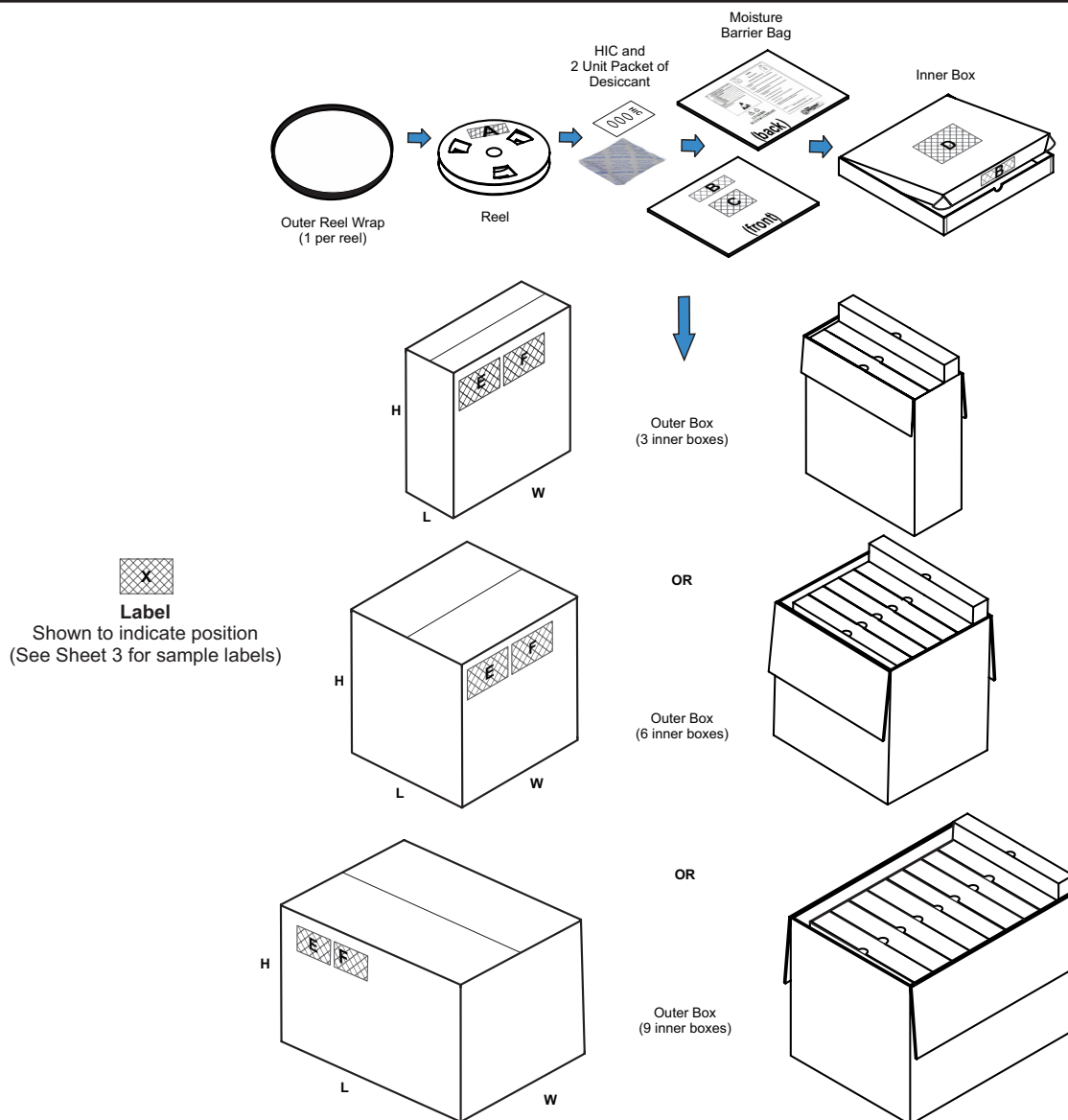
Carrier Tape			Cover Tape
W: 16.00 ±.3	D ₀ : 1.50 +.1/-0	A ₀ : 9.60	W _C : 13.1 T ₁ : 0.061 (0.1 MAX)
E ₁ : 1.75 ±.1	P ₀ : 4.00 ±.1	B ₀ : 9.60	
F: 7.50 ±.1	P ₁ : 8.00 ±.1	K ₀ : 2.20	
T: 0.30 (0.6 MAX)	P ₂ : 2.00 ±.1	K ₁ : 1.60	
		D ₁ : 1.50 MIN	

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



Reference EIA 481

JP-48 Package, TR Suffix



Carton Dimensions (mm)


Type	Length	Width	Height	Inner Carton Standard Quantity	Outer Carton Standard Quantity
TC17	351	364	56	1500	
TC18A	188	380	365		4500
TC18B	380	368	365		9000
TC17A	536	403	400		13500

* 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.


JP-48 Package, TR Suffix



Reel Production Label [A]

1.125in x 4in

	Part (P) A123456XXX-XXXXXXXX-XXXXXXXXXX
	Mfr PN (1P) A123456-XXXX-XXXX
	Qty (Q) 1000
	Lot (1T) 1234567XXXX Qty (1Q) 1000
	Lot 2 (2T) N/A Qty (2Q) 0


Moisture Sensitive Device
Peak Reflow 250°C

 MS-Level (13E) 2
Reel _____ Date (12D) 2019-01-01


 



Moisture Barrier Bag / Box Flap Label [B]

1.125in x 4in

	Part (P) A123456XXX-XXXXXXXX-XXXXXXXXXX
	Mfr PN (1P) A123456-XXXX-XXXX
	Qty (Q) 1000
	Lot (1T) 1234567XXXX Qty (1Q) 1000
	Lot 2 (2T) N/A Qty (2Q) 0









Moisture Sensitive Device
Peak Reflow 250°C


 MS-Level (13E) 2
Date (12D) 2019-01-01

1D Production Label [C]













2.5in x 3.75in




Allegro MicroSystems Manchester, NH 03103 USA		
Cust PN: 999999XXX-XXX99999XX_000000000		
		
Mfr PN: 999999XXX-XXX99999XX_000000000		
		
Alg In: 000000XXX-XXX00000XX		
		
Lot 1: 1234567XXXX	Qty 1: 10000	
Lot 2: 1234567XXXX	Qty 2: 5000	
D/C: 1234	Total Qty: 15000	

Bag 

Inner Carton Label [D]










4in x 6.5in





Allegro MicroSystems Manchester, NH 03103, USA		(4L) Made In United States
(P) Customer Part A12345XXXX-XXXXXXXX-000000000	(1K) Sales Order 00000000	
		
(1P) Manufacturer Part A12345XXXX-XXXXXXXX-000000000	(3D) Date Code 1234	
		
(1T) Lot 1234567XXXX	(Q) Quantity 100000	
		
(K) Purchase Order 0000000000-000000000	(16K) Delivery 00000000	
		

Outer Carton Label [E]



4in x 6.5in

Allegro MicroSystems Manchester, NH 03103, USA		(4L) Made In United States
(P) Customer Part A12345XXXX-XXXXXXXX-000000000	(1K) Sales Order 00000000	
		
(1P) Manufacturer Part A12345XXXX-XXXXXXXX-000000000	(Q) Quantity 100000	
		
(K) Purchase Order 0000000000-000000000	(16K) Delivery 00000000	
		

Outer Carton Address Label [F]

4in x 6.5in

Allegro Microsystems 955 Perimeter Rd Manchester, NH 03103 United States	
Ship To (Shipping Mark): Allegro Microsystems ATTN: Corporate Label Team 955 Perimeter Rd Manchester, NH 03103	
	Package 1 / 1

* Label examples are shown for content purposes only. Labels are not shown to scale. Given label dimensions are approximate. As required, the necessary compliance symbols on the labels will meet the ship to country regulations.

JP-48 Package, TR Suffix

Revision History

Revision No.	Date	ECN No.	Description
0	1/11/2018	OI	ORIGINAL ISSUE
1	4/17/2019	CR-2019-00270	UPDATE ORIENTATION GRAPHIC. ADD STANDARD TOLERANCES. UPDATE PACKING GRAPHIC. UPDATE LABEL GRAPHICS. UPDATE COPYRIGHT DATE. UPDATE ALLEGRO ADDRESS. UPDATE LOGO.

This document provides reference information that can be used to identify leadform and packing options offered by Allegro MicroSystems. 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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