



Tape and Reel Specifications

Description

Surface-mounted devices are packaged in embossed tape and wound onto reels for shipment in compliance with Electronics Industries Association Standard EIA-481 Rev. A.

Specifications

Cover Tape

- The cover tape may not extend past the edge of the carrier tapes
- The cover tape shall not cover any part of any sprocket hole.

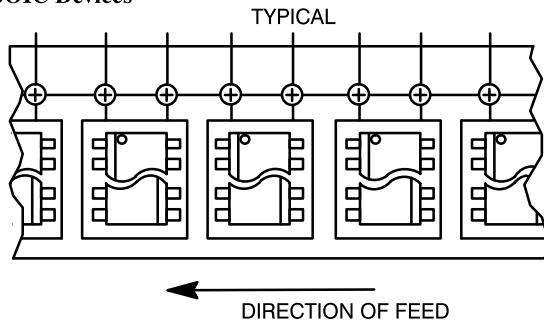
- The seal of the cover tape to the carrier tape is uniform, with the seal extending over 100% of the length of each pocket, on each side.
- The force to peel back the cover tape from the carrier tape shall be: 20 gms minimal, 70 gms nominal, 100 gms maximal, at a pull-back speed of 300 ± 10 mm/min.

Loading the Reel

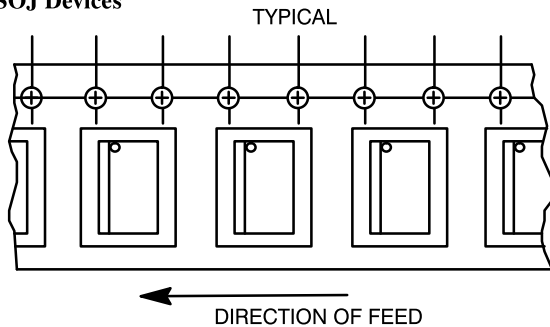
Empty pockets are not permitted between the first and last filled pockets on the tape.

The surface-mount devices are placed in the carrier tape with the leads down, as shown in *Figure 1*.

SOIC Devices



SOJ Devices



PLCC and LCC Devices

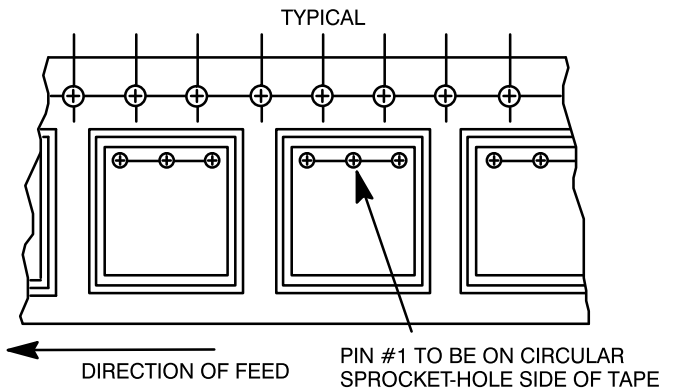


Figure 1. Part Orientation in Carrier Tape



Leaders and Trailers

The carrier tape and the cover tape may not be spliced. Both tapes must be one single uninterrupted piece from end to end.

Both ends of the tape must have empty pockets meeting the following minimum requirements:

- Trailer end (inside hub of reel) is 300 mm minimum
- Leader end (outside of reel) is 500 mm min., 560 mm max.
- Unfilled leader and trailer pockets are sealed
- Leaders and trailers are taped to tape and hub respectively using masking tape

Packaging

- Full reels contain a standard number of units (refer to *Table 1*)
- Reels may contain up to 3 inspection lots.
- Each reel is packed in an anti-static bag and then in its own individual box.
- Labels are placed on each reel as shown in *Figure 2*. The information on the label consists of a minimum of the following information, which complies with EIA 556, "Shipping and Receiving Transaction Bar Code Label Standard":
 - Barcoded Information:
 - Customer PO number
 - Quantity
 - Date code
 - Human Readable Only:
 - Package count (number of reels per order)
 - Description
 - "Cypress—San Jose"
 - Cypress p/n
 - Cypress CS number (if applicable)
 - Customer p/n
- Each box will contain an identical label plus an ESD warning label.

Ordering Information

CY7Cxxx–yyzzz

xxx = part type

yy = speed

zzz = package, temperature, and options

SCT = soic, commercial temperature range

SIT = soic, industrial temperature range

SCR = soic, commercial temperature plus burn-in

SIR = soic, industrial temperature plus burn-in

VCT = soj, commercial temperature range

VIT = soj, industrial temperature range

VCR = soj, commercial temperature plus burn-in

VIR = soj, industrial temperature plus burn-in

JCT = plcc, commercial temperature range

JIT = plcc, industrial temperature range

JCR = plcc, commercial temperature range plus burn-in

JIR = plcc, industrial temperature range plus burn-in

Notes:

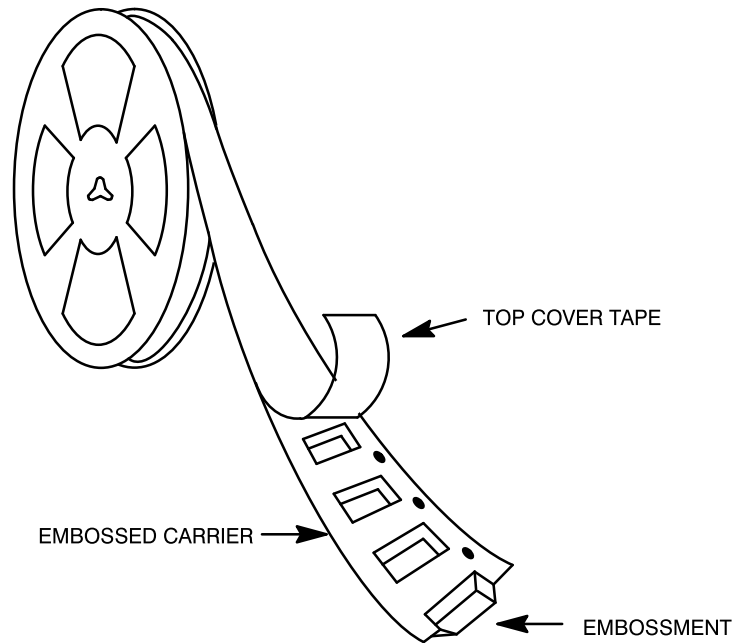
1. The T or R suffix will not be marked on the device. Units will be marked the same as parts in a tube.
2. Order releases must be in full-reel multiples as listed in *Table 1*.



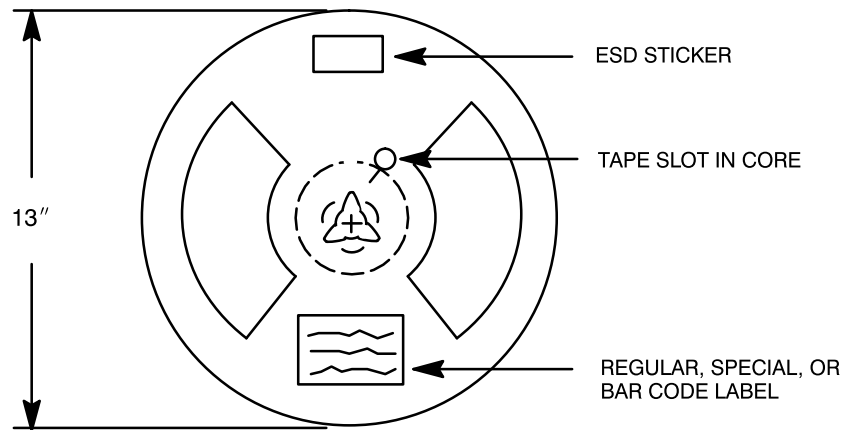
Tape and Reel

Table 1. Parts Per Reel and Tape Specifications

Package Type	Terminals	Carrier Width (mm)	Part Pitch (mm)	Parts Per Full Reel	Minimum Partial Quantity
PLCC	20	16	12	1,000	250
	28	24	16	750	188
	32R	24	16	750	188
	44	32	24	500	125
	52	32	24	500	125
	68	44	32	250	63
	84	44	32	250	263
SOIC	20	24	12	1,000	250
	24	24	12	1,000	250
	28	24	12	1,000	250
SOJ	20	24	3	1,000	250
	24	24	3	1,000	250
	28	24	3	1,000	250
	32L (300 mil)	24	16	1,000	250
	32 (400 mil)	32	3	1,000	250
TSOP	28L	24	16	1,000	250
	32	32	3	1,750	438
SSOP	20 (150 mil)	16	8	2,000	500
	24 (150 mil)	16	8	2,000	500
	48 (300 mil)	32	16	1,000	250
	56 (300 mil)	32	16	1,000	250
TSSOP	48	24	12	2,000	500
	56	24	12	2,000	500



Tape and Reel Shipping Medium



Label Placement

Figure 2. Shipping Medium and Label Placement

Document #: 38-00111-B