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April 19, 2005

TM-20 OEM Taping Module Specification

The TM-20 is a compact, full featured SMD taping module for processing of embossed carrier tape using heat or pressure activated cover tape. The module is supplied with tape drive, sealing station, infeed and outfeed reel supports, cover tape support and fault sensing.

Taping Performance

- Tape width: 8 – 56 mm (per EIA-481)
- Tape pitch: 4mm and up (2mm is optional)
- Maximum pocket depth: 0.50 in. (12.7 mm)
- Tape types: Heat sensitive or Pressure sensitive
- Throughput: 7,200 parts per hour based
- Sealing Temperature: up to 220°C (430°F)
- Sealing Pressure: Operator adjustable
- Sealing Temperature: Operator adjustable dual controllers with out-of-temp fault sensing

Changeover time

Tape change due to new package: 10 minutes

New input reel change: 3 minutes

Changeover method:

- Tree gauges position carrier tape rails
- Micrometers accurately locate seal position and cover tape
- Cover tape roller is replaceable for different width cover tapes
- Sensors positions are micrometer adjustable

Tape Handling

Input Reel: 30" (760 mm) OD

Output Reel: 13" (300 mm) OD, 30" (760 mm) OD is optional

Cover Tape: 6.75" (170 mm) OD



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Controls

The taping module is supplied with a stepper motor and associated motor driver for tape indexing, dual temperature controllers, take-up reel motor, sensors and solid state relays. The motor driver monitors the tape position and controls the tape index. The host system monitors and controls the taping module functions which include keeping track of the pocket count for the leader, trailer and production run, monitoring fault conditions and activating the seal mechanism and take-up reel motor.

Sensors are provided to detect part-missing-in-tape and part-not-fully-seated-in-tape fault conditions.

Maintenance

MTBF	2,000 hours
MTTR	15 minutes
MTTA	<1 minute
Uptime	97%

Weakly maintenance:

- Remove seal blades and clean adhesive residue from blades
- Blow off dust on sensor fibers

General

- Facilities:
 - Power: 120/220 VAC, 4/2 Amps, 50/60 Hz
 - 24 volts, 3 Amps
 - Clean Dry Air: 2 CFM @ 70 PSI minimum
- Packaged Weight: 125 lbs. (57 kg)

Accessories / Options

- Low cover tape sensing
- 2 mm Tape pitch capability
- 8-72 mm Tape width capability (includes 1.0" (25 mm) deep pocket capability)
- 22" (560 mm) Output Reel capability