



# FastTrack™ Series RFID Tags LRP125HT-FLX

## Features

- High-Temperature Surviving RFID Tags
- No Batteries
- Compact .88in. Diameter
- No Moving Parts
- Flexible, Easy to Mount
- Reusable or Disposable

## Applications

- Paint Ovens
- Material Handling
- Manufacturing

## Use With

- FastTrack™ Long-Range Conveyor Reader/Writer (LRP820-04)
- FastTrack™ Long-Range DeviceNet Conveyor Reader/Writer (LRP830-04)
- FastTrack™ Long-Range Reader/Writer (LRP820-08)
- FastTrack™ Long-Range DeviceNet Reader/Writer (LRP830-08)

**EMS**, a Datalogic Group Company, is the field-proven leader in the development and application of Radio Frequency Identification (RFID) Tags/Labels/PCBs, Antennas, Controllers and network interface modules for tough industrial environments. With over a dozen years of RFID successes in the automotive, electronics, material handling and food processing industries, EMS has built a global reputation in providing customers with complete supply chain solutions – from production to retail EMS has the complete solution!

EMS' FastTrack™ line of RFID Tags/Labels/PCBs and Reader/Writers (or Antennas) provides outstanding RFID solutions for demanding industrial environments. From scorching paint ovens to post office parcel tracking applications, the FastTrack™ family of RFID Tags/Labels/PCBs and Reader/Writers deliver on all of your data collection and tracking demands.

The FastTrack™ family of RFID Tags/Labels/PCBs use Philips Semiconductor I-CODE chips, but most important, use EMS' unique,

patented design and manufacturing technology to create the most advanced industrial RFID Tags.

EMS' reusable (or disposable) FastTrack™ Series Passive Read/Write LRP125HT-FLX Tag is specifically designed for demanding manufacturing environments. The Tag is available in a compact .88in. diameter. This FastTrack™ Tag also features high temperature surviving capabilities. Long-Range Read and Write distances, Multiple-Tag-In-Field Read/Write technology, industrial Antennas, DeviceNet Reader/Writers, RFID Labels, high-temperature disposable FLX Tags. EMS' FastTrack™ family of products is your RFID solution.

HIGH  
TEMPERATURE  
SURVIVING  
RFID TAGS

**FastTrack™ – LRP125HT-FLX**

Features

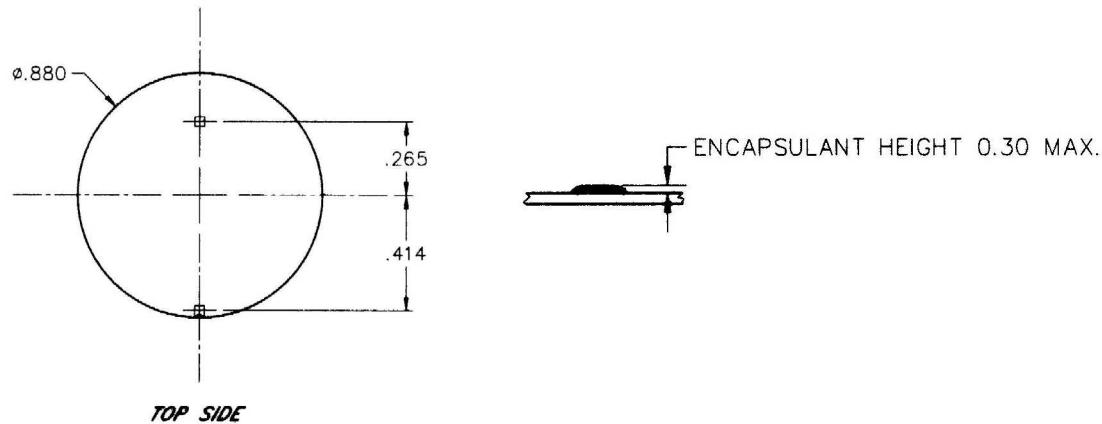
**LRP125HT-FLX**

Memory  
 Data Transfer Rate  
 Operating Temperature  
 Storage Temperature  
 Protection Class

48 Bytes  
 Read Speed 1200 Bytes/Second  
 Write Speed 500 Bytes/Second  
 -40 to 200 F (-40 to 93 C)  
 -40 to 392 F (-40 to 200 C)  
 NEMA 6P/13 (IP68)

Note: Operating Temperature is the range of temperatures at which read, write and fill operations can be performed. Storage time prior to LRP125HT-FLX tag failure is not indefinite. Storage time must be established via testing in the actual working environment.

Mechanical Dimensions



RFID Field and Read/Write Ranges

**LRP820-04 / LRP830-04 Passive Reader/Writers (mounted between metallic rollers)**

Reading & Writing Ranges with FastTrack™ Passive Read/Write TAGS

**LRP125HT-FLX**

Typical Range (Z) (inches/mm)*	2.50/64
Guaranteed Operating Range	2.00/51

**LRP820-04 / LRP830-04 Passive Reader/Writers (free air/non-metallic environment)**

Reading & Writing Ranges with FastTrack™ Passive Read/Write TAGS

**LRP125HT-FLX**

Typical Range (Z) (inches/mm)*	3.00/76
Guaranteed Operating Range	2.25/57

**LRP820-08 / LRP830-08 Passive Reader/Writers**

Reading & Writing Ranges with FastTrack™ Passive Read/Write TAGS

**LRP125HT-FLX**

Typical Range (Z) (inches/mm)*	8.00/203
Guaranteed Operating Range	7.00/178



## Passive Read/Write Radio Frequency Identification (RFID)

### Typical & Guaranteed Read/Write Ranges

(inches/mm)\*

Antennas	Tags			
	LRP820-08 / LRP830-08	LRP820-04 / LRP830-04 without metal	LRP820-04 / LRP830-04 with metal	
LRP125(HT)/125HT-FLX	Typ. Guar.	8.00/203 7.00/178	3.00/76 2.25/57	2.50/64 2.00/51
LRP250(HT)	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP250HT-FLX	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP-P125	Typ. Guar.	8.00/203 7.00/178	3.00/76 2.25/57	2.50/64 2.00/51
LRP-P3858	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP-P5050	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP-L5555	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP-L4982	Typ. Guar.	17.00/432 15.00/381	8.50/216 7.50/191	7.00/178 6.00/152
LRP-L2666	Typ. Guar.	16.00/406 13.00/330	7.00/178 6.00/152	6.00/152 5.00/127
LRP-L90140	Typ. Guar.	25.00/635 22.00/559	12.00/305 11.00/279	9.00/229 8.00/203

\*Proximity to metal, CRT devices and other sources of electromagnetic radiation may affect the range of the Antenna.