ESCORT MEMORY SYSTEMS

FastTrack™

R F I D

FastTrack™ RFID FLX Tag
LRP250HT-FLX

Features
- High-Temperature Survival
- Adhesive Backing
- Flexible, Easy to Mount Tag
- No Batteries
- 50 x 50mm Size
- No Moving Parts
- Reusable or Disposable

Applications
- Material Handling
- Automotive Paint Ovens
- Vehicle Tracking

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' 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 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 identifiers.

EMS' disposable (or reusable) LRP250HT-FLX Passive Read/Write RFID Tags are specifically designed for paint oven applications. The 50 × 50mm square Tag can easily bend to adhere to any curved surface. An automotive wheel well is a perfect application in which the FastTrack™ FLX Tag can be peeled off and placed onto a Tag holder which can then be easily affixed to an already existing mounting hole in the wheel well area (contact EMS for application case study details). The adhesive backing of the FLX Tag ensures an easy-to-install solution.

FLEXIBLE RFID TAG SURVIVES PAINT OVEN APPLICATIONS

EMS is providing two versions of LRP250HT-FLX Tag. The LRP250HT-FLX-01 does not have a protective ring around the chip. This gives the Tag a lower profile. The LRP250HT-FLX-02 has a protective ring around the chip, offering a more durable alternative.

Long-Range Read and Write distances, Multiple-Tag-In-Field Read/Write technology, industrial Antennas, DeviceNet Reader/Writers, RFID Labels, high-temperature FLX disposable Tags…EMS' FastTrack™ family is your industrial RFID solution.
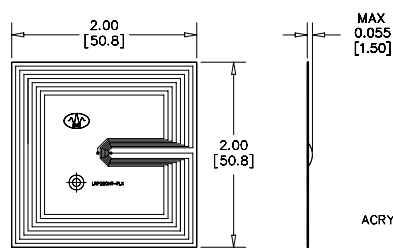
FastTrack™ – LRP250HT-FLX

Features

LRP250HT-FLX

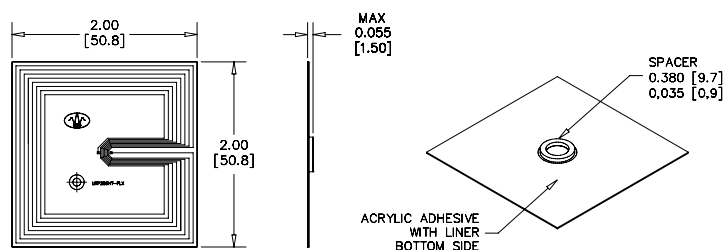|	
Memory	48 Bytes
Data Transfer Rate	Read Speed 1200 Bytes/Second
	Write Speed 500 Bytes/Second
Operating Temperature	-40° to 200°F (-40° to 93°C)
Storage Temperature	-40° to 392°F (-40° to 200°C)*
Protection Class	NEMA 6P/13 (IP68)

Note: Operating Temperature is the range of temperatures at which read, write and fill operations can be performed.

* When using LRP250HT-FLX in a disposable application, the Tag will survive a minimum of 9 cycles at 200°C for 2 hour durations.

LRP250HT-FLX-01

LRP250HT-FLX-02

Typical & Guaranteed Read/Write Ranges

(inches/mm)*

			Tag	
Readers/Writers			**LRP250HT-FLX**	
LRP820-04 / LRP830-04 Long-Range Conveyor Reader/Writers	(mounted between metallic rollers)	Typ. Guar.	7.00/178 6.00/152	
LRP820-04 / LRP830-04 Long-Range Conveyor Reader/Writers	(free air/non-metallic environment)	Typ. Guar.	8.50/216 7.50/191	
LRP820-08 / LRP830-08 Long-Range Reader/Writers		Typ. Guar.	17.00/432 15.00/381	

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

Available Models

Model	Description
LRP250HT-FLX-01	Passive Read/Write Flexible Tag, 50 × 50mm, 48 Bytes (no protective ring around chip)
LRP250HT-FLX-02	Passive Read/Write Flexible Tag, 50 × 50mm, 48 Bytes (with protective ring around chip)

Compatible Products

Model	Description
LRP820-04	Long-Range Conveyor Reader/Writer
LRP830-04	Long-Range DeviceNet Conveyor Reader/Writer
LRP820-08	Long-Range Reader/Writer
LRP830-08	Long-Range DeviceNet Reader/Writer

Passive Read/Write Radio Frequency Identification (RFID)
Typical & Guaranteed Read/Write Ranges

(inches/mm)*

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

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