



Long Range RFID

LRP S-SERIES TAGS

FEATURES

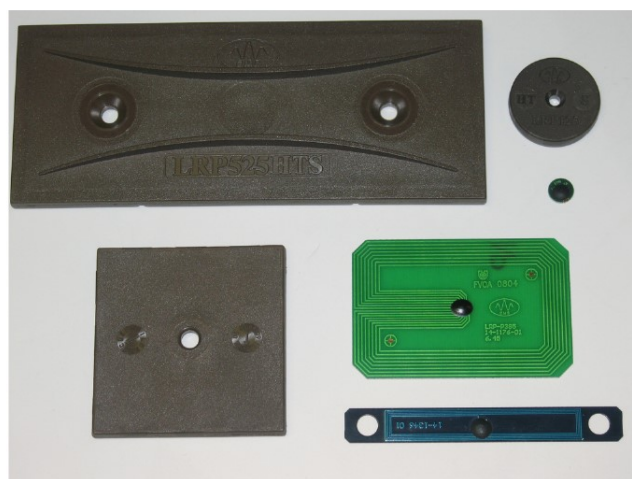
112 Bytes of user-accessable read/write memory allows storage of critical process detail.

Wide range of tag sizes and forms permit installation on pallets, carriers, packages, and products.

High Temperature (HT) models can withstand up to 200°C/392°F for use in automotive paint ovens and similar environments.

Conformance to the International ISO15693 (13.56MHz) RFID Standard assures "reader agnostic" compatibility, worldwide.

Reusable memory with 100K+ write cycles, unlimited reads, and minimum data retention of 10 years, provides high return on investment.



The Escort Memory Systems LRP family of RFID tags provides outstanding auto-ID solutions for demanding industrial environments. The "S" models are based on Philips I-Code SLI chips, and incorporate EMS' unique design and manufacturing technology. These passive read/write tags require no batteries and offer 112 bytes of user-accessable memory. The series includes a variety of sizes to fit many applications. A durable plastic encapsulation protects the tags from harsh environments, or the user may choose a printed circuit board version if required. Read/write distances range from 0.5 to 20 inches (13 to 432mm) depending on the tag and antenna combination.

Escort Memory Systems LRP S-Series Tags provide plenty of memory for industrial auto-identification applications. PCB models can be embedded directly into the finished goods for product tracking beyond the factory.

LRP S-Series Tags are an excellent choice for pharmaceutical sorting and packaging, automated control of conveyor systems, and manufacturing applications where absolute data reliability is a requirement.

SPECIFICATIONS

Memory:
112 Bytes

Humidity:
100% non-condensing

Operating Temperatures
 High Temp. models:
 -40° to 200° F (-40°C to 93°C)
 Standard models:
 4° to 185° F (-20°C to 85°C)

Storage Temperatures
 High Temp. models:
 -40° to 392° F (-40° to 200°C)
 Standard models:
 -40° to 185° F (-40° to 85°C)

Protection Class
 Encapsulated models:
 NEMA 6P/12, IP68
 PCB Models:
 Not rated

COMPATIBLE READERS/CONTROLLERS

HF-0405 Series
 HF-CNTL Series
 LRP Series
 ISO15693 readers

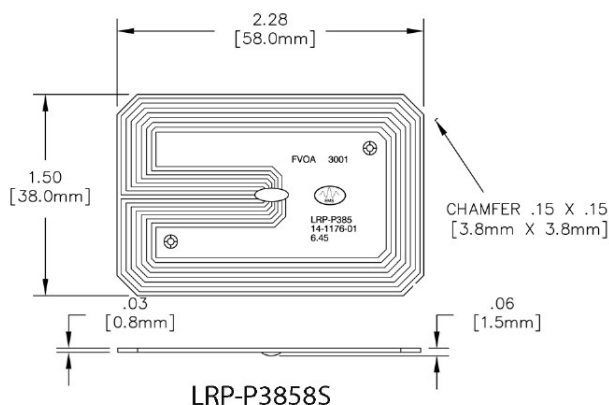
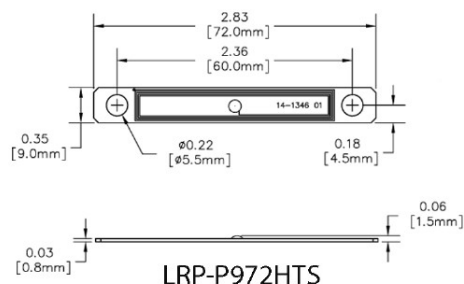
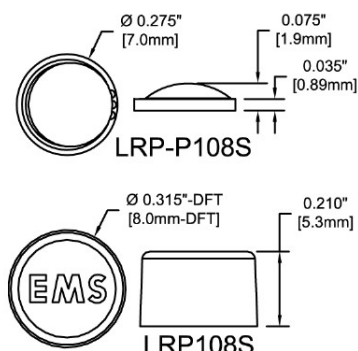
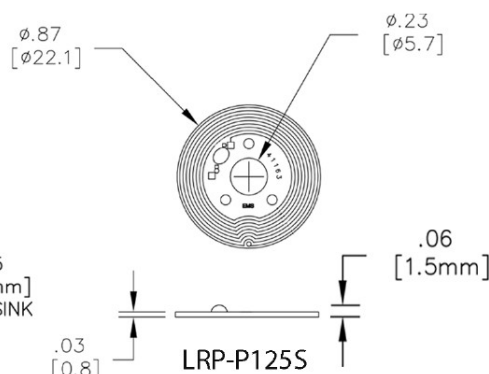
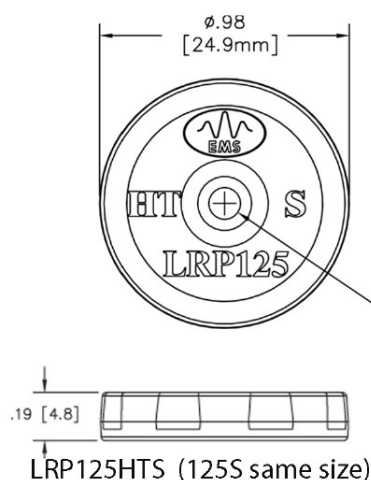
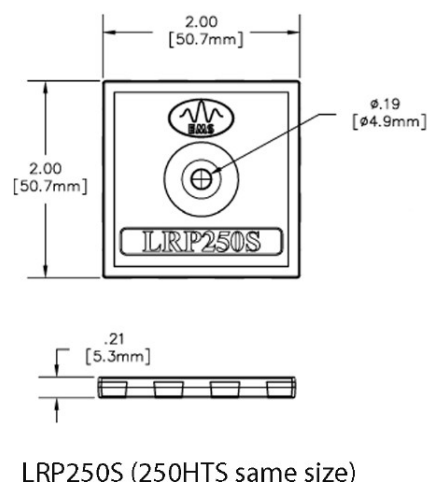
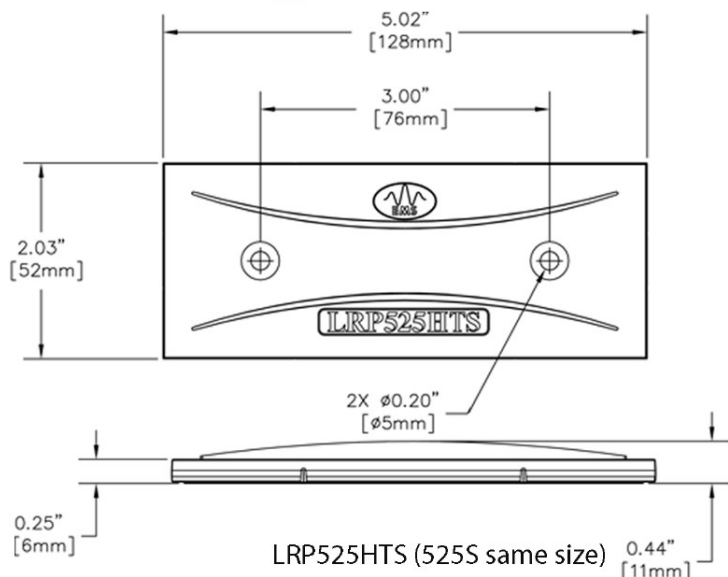


ESCORT MEMORY SYSTEMS
 A Datalogic Group Company

Long Range Passive Tags

LRP S-SERIES TAGS

MECHANICAL DRAWINGS inches [millimeters]





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TYPICAL READ/WRITE RANGE¹ WITH EMS CONTROLLER/ANTENNAS mm/in.

Controller	HF-0405	COBALT™ Controllers HF-CNTL-XXX				LRP8XXS Controllers		
Antenna	Integrated	HF-0750	HF-1010	HF-2020	HF-3030	LRP-02	LRP-04 ²	LRP-08
Tag Model								
LRP125HTS	38/1.5	63/2.5 ²	152/6.0	216/8.5	228/9.0	139/5.5	68/2.7	178/7.0
LRP250HTS	76/3.0	note 4	267/10.5	381/15.0	406/16.0	241/9.5	165/6.5	381/15.0
LRP525HTS	70/2.7	127/5.0 ²	254/10.0 ³	381/15.0 ³	432/17.0 ³	330/13.0	228/9.0	508/20.0
LRP125S	38/1.5	note 4	152/6.0	216/8.5	238/9.4	139/5.5	68/2.7	178/7.0
LRP250S	70/2.7	114/4.5	230/9.0	350/13.7	380/15.0	241/9.5	165/6.5	381/15.0
LRP525S	98/3.8	note 4	216/8.5 ³	318/12.5 ³	356/14.0 ³	330/13.0	228/9.0	508/20.0
LRP-P108S	13/0.5	--	--	--	--	--	--	--
LRP-P125S	40/1.6	note 4	144/5.6	195/7.6	200/7.9	139/5.5	68/2.7	178/7.0
LRP-P3858S	60/2.3	95/3.7 ²	216/8.5	292/11.5	343/13.5	215/8.5	127/5.0	356/14.0
LRP-P972HTS	40/1.7	note 4	89/3.5	101/4.0	127/5.0	120/4.7	75/2.9	165/6.5

Note 1. Ranges in free air except as noted; may be affected by EMI/EMF and metal nearby.

Note 2. mounted in metal conveyor test fixture

Note 3. Tag mounted directly to metal surface

Note 4. Contact EMS for range information

TEMPERATURE AND DIMENSIONAL SPECIFICATIONS

Tag Model	Operating Temperature Range, C	Storage Temperature Range, C	Surface Dimensions, mm	Body Thickness, mm	Max Thickness, mm	Mounting Hole Diameter, mm
LRP125HTS	-40 to 93	-40 to 200	24.9 dia.	4.8	4.8	3.2
LRP250HTS	-40 to 93	-40 to 200	50.7x50.7	5.3	5.3	4.9
LRP525HTS	-40 to 93	-40 to 200	52x128	6.0	11.0	5.0
LRP125S	-20 to 85	-40 to 85	24.9 dia.	4.8	4.8	3.2
LRP250S	-20 to 85	-40 to 85	50.7x50.7	5.3	5.3	4.9
LRP525S	-20 to 85	-40 to 85	52x128	6.0	11.0	5.0
LRP-P108S	-20 to 85	-40 to 85	6.9 dia.	0.8	1.3	none
LRP-P125S	-20 to 85	-40 to 85	22.1 dia	0.8	1.5	5.7
LRP-P3858S	-20 to 85	-40 to 85	38x58	0.8	1.5	none
LRP-P972HTS	-40 to 93	-40 to 185	9x72	0.8	1.5	5.5