

3M™ UHF Headlamp Mount Tag, Non-Transferrable

Ultra High Frequency 865 – 928 MHz Global Passive Transponder

Overview

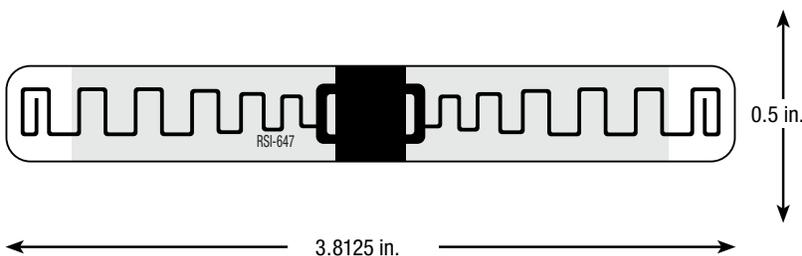
The 3M™ Non-Transferrable Headlamp Mount Tag is a high performance radio frequency (RF) transponder designed to be used in conjunction with 3M's reader systems for automatic vehicle identification applications.

Developed for use directly on a motorcycle or vehicle headlamp, each transponder is capable of read/write functionality, contains a unique identification code, and is powered by utilizing energy from the reader, eliminating the requirement for a battery. The Headlamp transponder has a compact form factor and offers unique components and construction providing removal security.

The tag and reader solution is ideally suited for a number of global transportation applications including Electronic Vehicle Registration (EVR), vehicle emissions testing, proof of insurance compliance, electronic tolling and Parking & Access Control (PACS). By eliminating the manual, visual-based inspection associated with current systems the 3M solution enables system operators to securely identify vehicles with appropriate authorizations from a distance, while the vehicle is in motion.

Security & Authentication

3M technologies offer multiple levels of security and authentication options. These options provide both “break on remove” and physical authentication techniques for the transponder. In addition, 3M provides “RF” security features that verify the authenticity of a transponder during communications with the reader and provide security of sensitive information that may be stored on the tag.



3M™ Headlamp Mount Tag



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865–928 MHz Global, Passive Transponders

Performance Characteristics

Operating Frequency:	902 - 928 MHz Americas, 4 W EIRP 869.4 - 869.56 MHz Europe, 0.5 W ERP 865.6 - 867.6 MHz Europe, 2 W ERP
Supported Protocol:	ISO 18000-6C
Data Transfer Rate:	Up to 640 kbps

Physical Characteristics

Dimensions (LxW):	Label - 96.8375 x 12.7 mm (3.8125 x 0.5 in.) Inlay - 92.9 x 8.0 mm (3.66 x 0.315 in.)
Weight:	1.2 g (0.04 oz)

Environment

ESD Voltage Immunity:	+/- 3kV
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Relative Humidity:	Up to 95% RH
Precipitation:	Rain, blowing rain, freezing rain

Tag Memory & Security

Tag Part Numbers:	ID-HMT-NT-L1S	ID-HMT-NT-L3S
On-Chip Memory:	752 bits	800 bits
Tag Identifier:	64 bits	64 bits
Access password:	32 bits	32 bits
Kill password:	32 bits	32 bits
EEPROM data retention:	10 years	10 years
EEPROM write endurance:	100,000 cycles	100,000 cycles
Unique TID:	Yes	Yes
Password Authentication:	Yes	Yes
Read Lockable Memory:	No	Yes

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Traffic Safety and Security Division
3M Center, Building 235-3A-09
P.O. Box 33225
St. Paul, MN 55133-3225
www.3M.com/mvss

3M Canada Company
P.O. Box 5757
London, Ontario N6A 4T1
1-800-3MHELPS

3M México, S.A. de C.V.
Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro Obregón
México, D.F. 01210

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