⊕DATALOGIC™

UHF-G2-525HT TAG

Rugged UHF RFID Tag for Industrial Automation

FEATURES & BENEFITS

EPC Class 1 Gen 2 UHF standard is supported for state-of-the-art performance.

Long-range reading distance for many factory automation, WIP, and other industrial uses.

High Temperature design survives up to 200˙ C [392˙ F].

Rugged case assures protection from moisture and dust in harsh environments.

Tag operates at both FCC and ETSI frequency bands.

Includes mounting brackets that provide a stand-off for mounting on metal.

Extended 512 bit user memory allows writing and reading of key data above and beyond the EPC code memory.

The UHF-G2-525HT is a rugged high-temperature UHF tag that operates on the Gen 2 standard. The read/write range of up to 3 meters is significantly longer than similar HF tags.

Ideally suited for automotive Body, Assembly, and Paint operations with a survival temperature of 200˙ C (392˙ F).
This industrial strength tag is based on the long-proven design of the EMS HF series high temperature tags.

25+ years of experience with RFID systems for manufacturing are behind every EMS product, supported by Datalogic around the world.

RFID AIR PROTOCOL
EPC Class 1, Gen 2.

EMS UHF CONTROLLERS
UHF-CNTL-232-02-XX
UHF-CNTL-485-02-XX
UHF-CNTL-IND-02-XX
UHF-CNTL-DNT-02 (in 2009)
UHF-CNTL-PBS-02 (in 2009)
UHF-UN1

XX = 91 or 86 for freq. type

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UHF-G2-525HT

SPECIFICATIONS

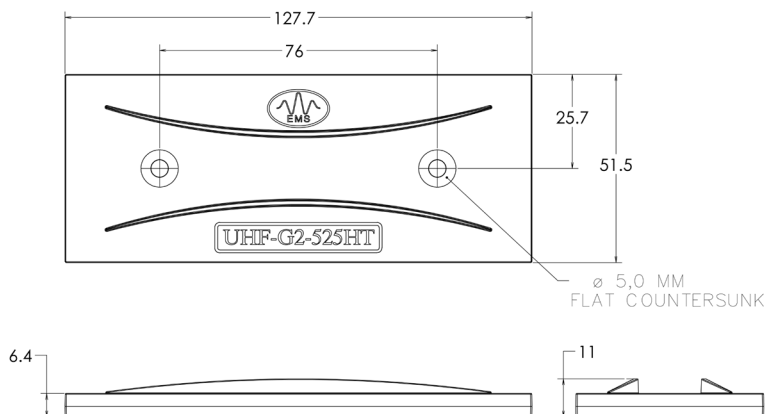|	
Dimensions	127.7x51.5x6.4 mm
	5.0x2.0x0.43 inches
Weight	95 gm (3.3 oz)
Operating Temperature	-40˚ to 93˚ C (-40˚ to 200˚ F)
Storage Temperature	-40˚ to 200˚ C (-40˚ to 392˚ F)
Vibration Resistance	IEC 68-2-6 Test FC 1.5mm, 10-55Hz, 2 hrs each axis
Shock Resistance	IEC 68-2-27 test EA 30 G, 11ms, 3 shocks each axis
IP Rating	IP68*
User Memory	512 bit
Protocol	EPC C1G2

*IP68: Enduser is responsible for application testing in their particular environment. IP rating refers only to dust and water intrusion.
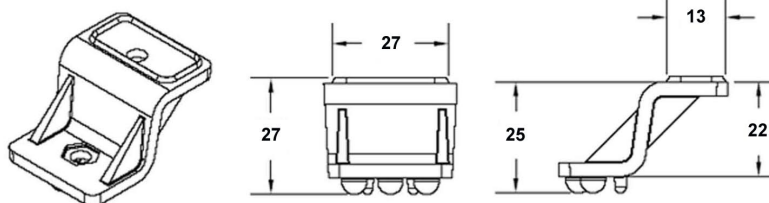
UHF TAG READ/WRITE RANGE

Read and write range are significantly affected by metallic and other objects in the vicinity of the tag and antenna. Range can be raised and lowered by changing the power setting in the RFID controller. For a given read range the writing distance is approximately one half.

 Maximum read range is up to 3 meters in laboratory conditions at maximum power.

MECHANICAL DRAWINGS, MM

TAG MOUNTING BRACKET, MM

UHF-G2-525HT TAG Memory Areas	Size
Reserved memory (32 bit ACCESS and 32 bit KILL password)	64 bit
EPC Code (excluding 16 bit CRC-16 and 16 bit PC)	240 bit
TID- Tag ID (including unique and ongoing 32 bit serial number)	64 bit [8 byte]
User Memory- free memory for user	512 bit [64 byte]

www.ems-rfid.com

Rev 01 - Jan. 2009

DATALOGIC AUTOMATION RFID BUSINESS UNIT PROUDLY OFFERS THE EMS LINE OF RFID TAGS, READERS, CONTROLLERS, ANTENNAS, AND COMMUNICATIONS GATEWAYS.