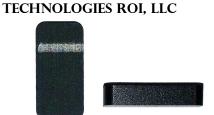


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1 PRODUCT DESCRIPTION

The patent-pending **TROI OK-106 High Temperature Ceramic** RFID tag provides automatic identification and tracking capabilities never-before available in such a unique package designed for rugged or hazardous use-areas.

The high temperature ceramic-molded, adhesive-backed tag is designed to be mounted to any metallic surface by either using the adhesive to hold it to the surface, or using **TROI's AP-1 Adhesive_Paint**. It can withstand unprecedented high temperature (consistent temperatures of 200 degrees Centigrade), high pressure and severe environmental conditions.

1.1 SPECIFICATIONS

Device type	Passive RFID tag
Air interface protocol	UHF: EPCGlobal Class1Gen2 / ISO/IEC 18000-6C
Operational frequency	Standard: UHF (865-869 MHz (EU), 902-928 MHz (US))
IC options - UHF	Standard: Alien Higgs 3 (others on request) Optional: EM, Fujitsu, Impinj, NXP (others on request)
EPC memory - UHF	Standard: 128 bit Optional: Up to 240 bit
EPC memory content	Unique 96-bit number encoded
Extended memory - UHF	Standard: 512 bit
TID - UHF	Factory-programmed, non-changeable, unique 64-bit ID.
Read range - UHF	Real-world: 1 – 2 meters
Size	Length: 28 mm Width: 13 mm Height: 7 mm
Tag material	Ceramic
Tensile strength	2500 psi minimum
Applicable surfaces	Any material
Product RoHS compliant?	Yes
Standards compliancy	ATEX-compliant

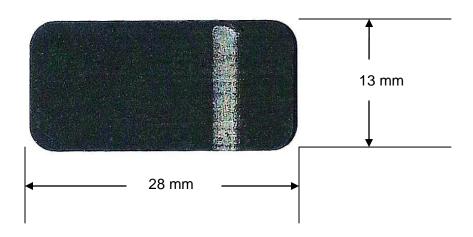




1.2 DIMENSIONS

Length 28 mm x Width 13 mm x Height 7 mm

PLAN VIEW



SIDE VIEW







	UHF max read-range on metal with 4W ERP
OK-106	660.4 cm / 260 inches
(915 MHz)	(6.63 m / 21.75 feet)

The read range listed above was obtained from a lab test environment. Actual test results may be different. Testing in actual use environments is strongly recommended.

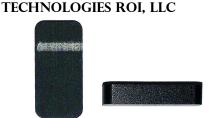
1.4 ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-50°C to +200°C*
Temperature Cycling Test	200 deg C, continuous for 30-days
IP classification	IP68K
Weather resistance	Excellent, including UV-resistance and sea water immersion
Chemical resistance	No physical or performance changes in: - Salt water - NaOH (depending on concentration) - Sulfuric acid (depending on concentration) - Motor oil (tested in 168 hour exposure) Generally good against: - Most solvents - Most acids and bases

^{*} **NOTE**: The RFID tag will not be functional if it is left at the maximum indicated temperatures such that the internal soak temperature exceeds +80 deg C. The RFID tag itself will (resume) function between -50 deg C and +80 deg C.

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1.5 SUPPORTED SERVICES

- Tag pre-encoding

For further details, please contact **TROI LLC**.

1.6 POSSIBLE APPLICATIONS

	Metal returnable containers, metal canisters,
Metal surfaces	metal pallets, metal pipes, high value metal items,
	aerospace applications, military applications, etc.

2 INSTALLATION INSTRUCTIONS

Pull the adhesive liner from the base of the tag and apply the tag to any metallic surface.

For long term adhesion, use **TROI**'s **AP-1 Adhesive_Paint**: get the datasheet and use as directed.

3 CONTACTING TROILLC

For additional information and technical support contact:

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ADVISORY

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