

Global Trak II



Functional Specifications

RF air protocol	EPC Class 1 Gen 2; ISO18000-6C
Operating frequency	UHF 860-960 MHz (Global)
IC type	Impinj M4E ¹
Memory configuration	496-EPC bits; 128-bit user memory; 48-bit TID
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Data retention	Up to 50 years ²
Warranty (limited)	1 year

Performance Characteristics

Read range on-metal (2W ERP) ³	Up to 8 ft (2.5 m)
Read range off-metal (2W ERP) ³	Up to 6 ft (1.8 m)
Polarization	Linear

(*3) Actual read range may vary based upon specific application case and antenna power

Physical Specifications

Material	Industry Grade Polymer
Mounting system	High performance adhesive; 0.1 in (2.6 mm) tethering hole
Color	Dark gray
Optional label	Standard or custom data in 1D or 2D matrix and human readable EPC code

Environmental and Industry Compliance

FSTC	FSTC compliant
RoHS	EU Directive 2002/95/EC



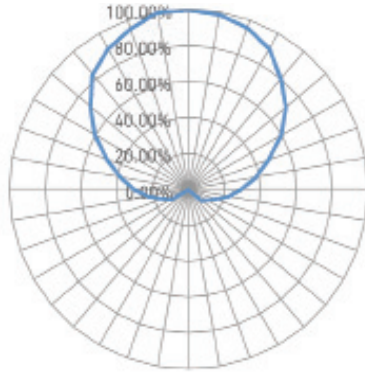
¹This product utilizes an Impinj M4E chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

²The chip data retention is based on chip operating under general environment conditions.

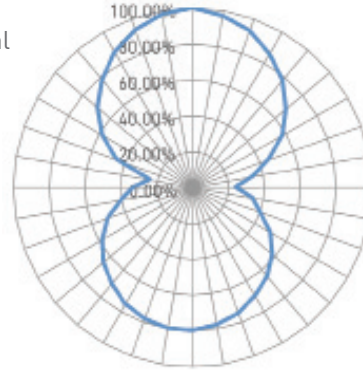
³Actual read range may vary based upon use case and antenna power.

Radiation Pattern

On metal



Off metal



Operational and Environmental Specifications

Operational temperature

Cold	-40°F (-40°C)
Dry heat (Long term, days/weeks/years)	+185°F (+85°C)
Thermal shock	-40°F to 185°F (-40°C to +85°C); cycled

Application temperature

Cold	-40°F (-40°C)
Dry heat (Short term, minutes/hours)	+185°F (+85°C)

Humidity

Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing

Shock (drop)

3 ft (1 m) to concrete/granite up to 200 cycles

Vibration

MIL-STD-810F

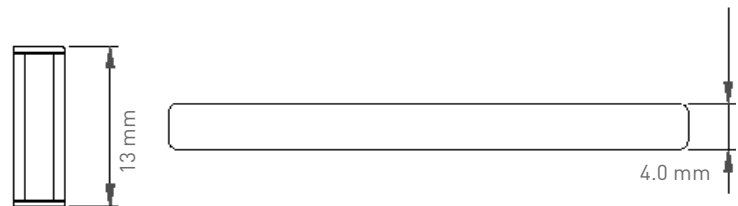
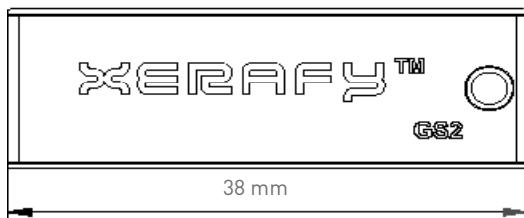
Compression strength

14.5 psi (100 kPa)

IP classification

IP54

Product Dimensions and Weight



Dimensions (mm)

38 x 13 x 4.0

tolerance

+/- 0.35

Dimensions (in)

1.50 x 0.51 x 0.16

tolerance

+/- 0.014

Tethering hole diameter

0.1 in +/- 0.008 (2.6 mm +/- 0.2)

Weight

0.09 oz (2.6 g)

Order information

X0330-GL011-M4E

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