



PRODUCT SPECIFICATION

REV O Sept 01 2016

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
1012-1002-A	RFID Tags Topaz 10x2.5x2.5 Paint



Contents

- o Physical Specifications and Read Range
- o Radiation Pattern
- o Environmental Specifications
- o Functional Specifications

Applications

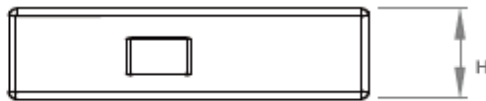
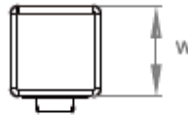
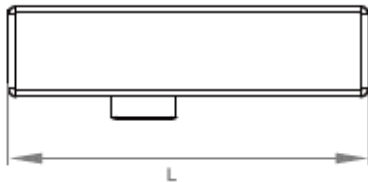
- o IT Assets
- o Tool Tracking
- o Other Metal Products



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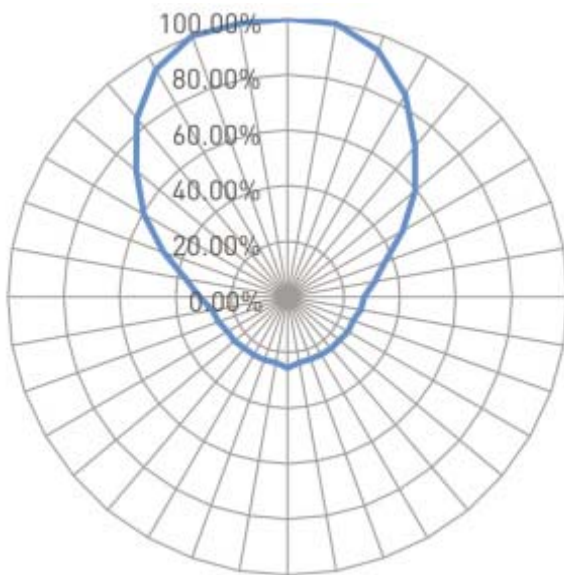


Physical Specifications and Read Range

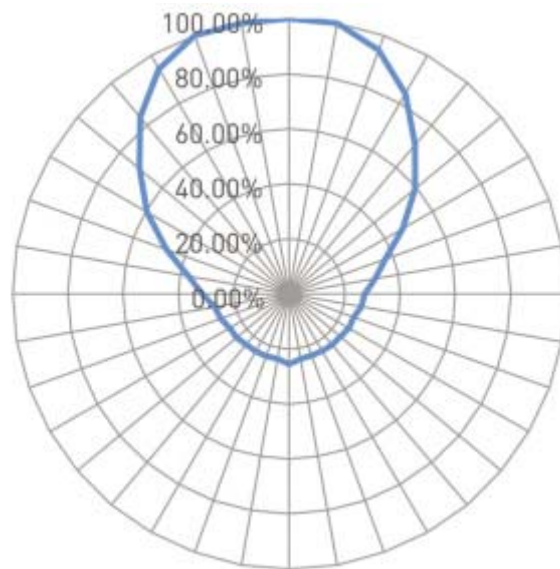


Topaz	
Size LxWxH (mm)	10x2.5x2.5
Weight	0.24
Avg Read Range on Metal, 4W EIRP (m)	1.6
Avg Read Range in Metal, 4W EIRP (m)	0.8
Encasing	Durable Paint

Radiation Pattern



On Metal



In Metal



Environmental Specifications

Parameters Description	Unit			
Operating Temperature	°C	-40	~	+85
Application Temperature	°C	-40	~	+150
IP Rate	IP68			
Attachment Warranty	Adhesive 1 Year			

Functional Specifications

Parameters Description	
Protocol	EPC C1G2 (ISO 18000-6C)
Operating Frequency	902~928 MHz (US) : 866~868 MHz (EU)
IC Type	Alien H3
Memory	512-bit user memory; 64-bit TID; 96-bit EPC
Read Rate	400 tags per second for 96-EPC bit number
Write Cycles	100,000 at 25°C
Data Retention	50 years