Theta Inlay



The Theta Inlay is a flexible printed circuit (FPC) RFID inlay specially designed for high temperature applications up to 200°C.

Its flexible, thin and light form factor makes it can be easily molded into non-metallic assets at the point of manufacturing.





Hi-Temp resistant



Flexible and embeddable





Cost effective label



- · Inject Molding
- . Cable Joints
- Logistics

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Performance Characteristics	
Read range off metal ¹	Up to 29.5 ft (9 m)
Read range off metal ²	Up to 16 ft (5 m)
Polarization	Linear
Mounting system	Mold injection

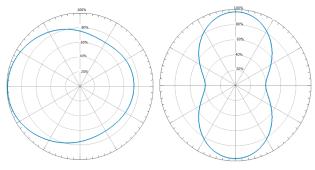
- 1. Fix reader
- 2. Handheld reader

Functional Specifications		
RF protocol	EPC global Class 1 Gen2	
Frequency	860-960 (Global)	
IC type (chip)1	Alien Higgs-3	
Memory	96-bit EPC, 512-bit user memory,64-bit serialized TID	
Material	FPC	
Format	Dry inlay	

1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

Radiation Pattern

Off metal Horizontal / Vertical





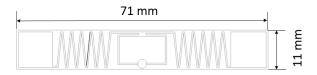
Environmental Specifications	
Operational temperature	-40°C to +100°C
Survival temperature	-40°C to +200°C
Chemical resistance ¹	Various caustic chemicals
Shock (drop)	3 ft (1 m) to concrete/granite
Vibration	MIL-STD-810G
IP rating	IP 68

1.	The chemical resistance is based on the concentration of solutions
and application environment.Please contact Xerafy for further detail	
	on chamical resistance

Industry Compliance	
RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEx	Compliant
Warranty	1 year

Order Information	
X7101-GL100-H3	Theta Inlay
Optional service	encoding

Product Dimensions and Weight		
Dimensions (in)	2.8 x 0.43 x 0.005	
Tolerance	+/- 0.02	
Dimensions (mm)	71 x 11 x 0.13	
Tolerance	+/- 0.5	
Weight	0.2g	



Embed the Theta Inaly during the mold injection process.

About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

For Product inquiries: sales@xerafy.com Singapore | China | US | UK

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