



RFO-LU2941 300°C High Temperature UHF Tag

DATA SHEET

Product Description

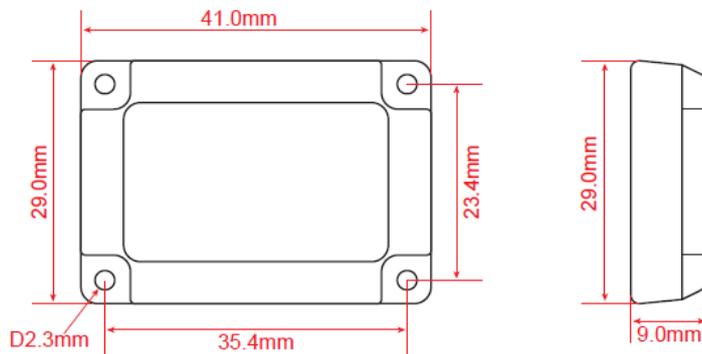
Main Features

High Temperature and Acid Alkali Resistant Tag RFO-LU2941

RFO-LU2941 RFID Smart tag is specifically designed to be mounted on metal surface for industrial markets where critical and potentially hazardous situations require reliable identification of assets.

The RFO-LU2941 extreme temperature rfid tags can survive extreme temperature up to 300°C and other harsh elements such as high impact and caustic chemicals (Acid,Alkali etc).

Product dimensions



Article no:

Typical Applications

- Manufacturing
- Security
- Waste management
- Logistics
- Health Care
- Asset management
- Food
- Transportation

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Functional Specifications:		RFO-LU2941
RFID Protocol	EPC Class1 Gen2, ISO18000-6C	
Frequency	US 902-928MHz, EU 865-868MHz	
IC type	NXP UCODE 8	
Memory	EPC 128bits , USER 0bits, TID 96bits	
Write Cycles	100,000 times	
Functionality	Read/write	
Data Retention	50 Years	
Applicable Surface	Metal Surfaces	
Read Range(On Metal) :(Fix Reader)	6.5m , US (902-928MHZ)	
	6.0m , EU (865-868MHZ)	
Read Range(On Metal) :(Handheld Reader)	3.5m , US (902-928MHZ)	
	3.5m , EU (865-868MHZ)	
Warranty	1 Year	
Physical Specification:		
Size	41.0x29.0mm, Hole: D2.3mmx4	
Thickness	9.0mm	
Material	PEEK	
Colour	Black	
Mounting Methods	Screw - Socket head cap screw(M2)	
Weight	15g	
Environmenal Specification:		
IP Rating	IP68, IP69X	
Storage Temperature	-60°C to +260°C, +300°C100 hours	
Operation Temperature	-40°C to +200°C	
Withstand PH	PH0 to PH14,and all other liquid that PEEK can handle with	
Reliability testing terms and results	a. Withstand 300°C for 100 hours continuously without damage. b. Withstand 280°C for 1000 hours continuously without damage. c. Withstand 260°C for 2000 hours continuously without damage. d. Withstand -20°C for 8 hours then 260°C for 16 hours per day, 80 days continuously without damage. e. Withstand from 150°C to -40°C, 7.5 cycles per day, 80 days continuously with total 600 cycles without damage. f. Withstand 260°C for 100 hours continuously then soaking in 2 meters depth water for 48 hours, without seepage or damage.	
Compression strength	150Mpa	
Certifications	Reach, RoHs, CE	

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