KEY DATA

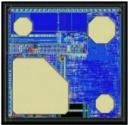
Chip: Higgs-EC Antenna Size: 70 × 15 mm Format: Dry Inlay, Wet Inlay, White Paper



APPLICATION

Liquid Packaging Management Supply Chain & Logistics Management

OVERVIEW



RS-HYRZN4801HEC-2 UHF RFID label is built with Alien Higgs-EC chips.

Higgs-EC offers a new approach to RFID. Higgs-EC leverages from the successful and proven Higgs family from Alien Technology and now adds the industry's most robust memory architecture. As RFID tag volumes grow, even the small percentage of bit errors inherent to

semiconductors becomes problematic. Higgs-EC provides a leapfrog in RFID technology by providing self-correcting memory.

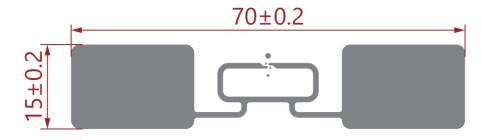
Higgs-EC also provides class-leading read and write sensitivity enabling smaller tags to be designed or tags to be used across longer distances from the RFID reader antenna. Both read and write sensitivities are enhanced benefiting both types of applications.

Higgs-EC is fully backwards compatible with Alien's other Higgs Ics. For example Alien's mass-encoding capabilites (QuickWrite and BlastWrite) and Alien anti-cloning technology (Dynamic Authentication) are supported.





DIMENSIONS

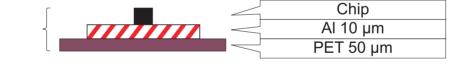


ORIENTATION

	70±0.2		Physical characteristics	Dimensions
0.2			Antenna size	70 × 15 mm
15±0.2			Inlay pitch	22.225 mm
0.5			PET width	83 mm
22.225±0.5		Unwinding	Dry Inlay thickness	Al 10 μm + PET 50 μm
		ing Direction	Reel detail	Web width: 83 ± 1.0 mm Inner core diameter: 3" (76.2 mm) Core thickness: 5 ± 2 mm
-	83±0.5			

STRUCTURE

Dry inlay



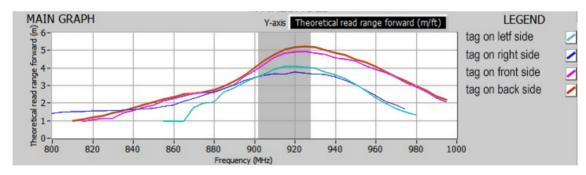




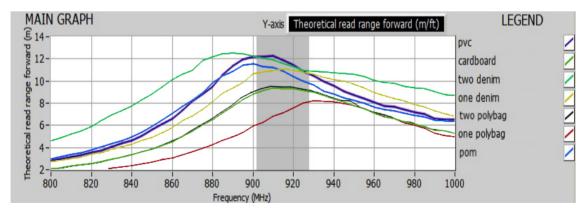
ELECTRICAL CHARACTERISTICS

	ltem	Description		
Manufacture/IC		ALIEN/Higgs-EC		
Base Material		PET		
Antenna		Etched Al (10 μm) + PET (50 μm)		
Pr	otocol	ISO/IEC 18000-6C EPC global Gen2 (V1.2.0)		
	User	128 bits		
	TID	48 bits		
Memory	EPC	128 bits		
	Password	Kill Password - 32 bits		
		Access Password - 32 bits		
Frequency		860 ~ 960 MHz		
Operating Mode		Passive		
IC Life		100,000 Programming cycles, 50 years data retention		
ESD Voltage Immunity		Max. 2000 V		

READ RANGE ON WATER



READ RANGE ON DIFFERENT MATERIAL





No.189, Zhongzhou West Road, Jingjiang, Jiangsu, China http://www.jshy-link.com.cn mkt1@jshy-link.com.cn



READ RANGE AND POWER

The range of sensitivity at 920 MHz band equal to 6 dBm or less (The acrual test shall prevail).

ENVIRONMENTAL REQUIREMENT

- Operating Temperature/Humidity: -5°C ~ 60°C / 20% ~ 80% RH
- Storage Temperature/Humidity: 20°C ~ 30°C / 20% ~ 60% RH
- Shelf Life: From the date of manufacture, 1 year in anti-static bag at 20°C ~ 30°C / 20% ~ 60% RH, and avoid direct sunlight exposure

PACKAGING

Reference Packing: Static-free bag with zipper; 12000 ± 100 Pcs/roll, 4 rolls/ctn (Actual Qty as per Shipping Mark).





