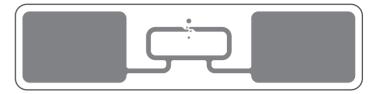
KEY DATA

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

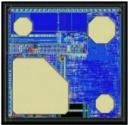


RS-HYRZN4801HEC-3

APPLICATION

Liquid Packaging Management Supply Chain & Logistics Management

OVERVIEW



RS-HYRZN4801HEC-3 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.

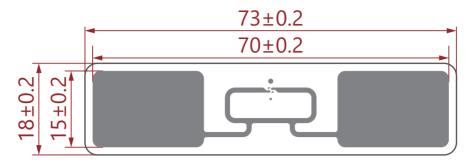
Higgs-EC also provides class-leading read and write sensitivity enabling smaller tags to be designed or tags to be used across longer distances from the RFID reader antenna. Both read and write sensitivities are enhanced benefiting both types of applications.

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.

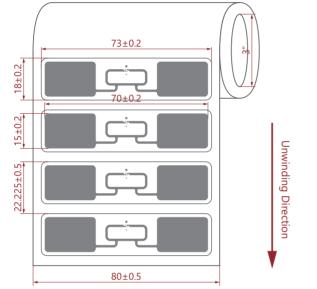




DIMENSIONS

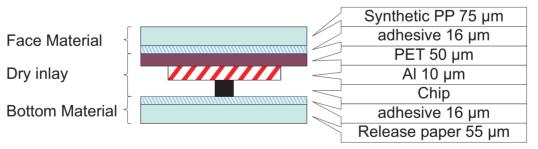


ORIENTATION



Physical characteristics	Dimensions
Antenna size	70 × 15 mm
Label size	73 × 18 mm
Label pitch	22.225 mm
PET width	80 mm
Material thickness	AL 10 μm + PET 50 μm
Reel detail	Web width: 80 ± 1.0 mm Inner core diameter: 3" (76.2 mm) Core thickness: 5 ± 2 mm

STRUCTURE



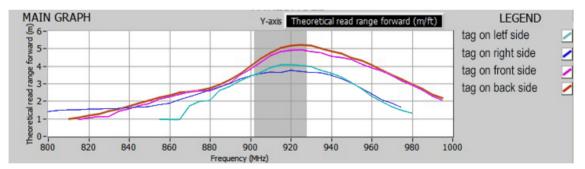




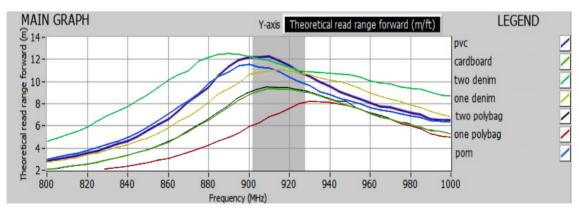
ELECTRICAL CHARACTERISTICS

Item		Description
Face Material		59 g/m², 75 μm Synthetic PP
Bottom Material		62 g/m², 55 μm Release Paper
Manufacture/IC		ALIEN/Higgs-EC
Base Material		PET
I	Antenna	Etched AI (10 μm) + PET (50 μm)
Protocol		ISO/IEC 18000-6C EPC global Gen2 (V1.2.0)
Memory	EPC	128 bits
	User	128 bits
	TID	48 bits
	Reserved	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



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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

- Adhesive Application Temperature/Humidity: 10°C ~ 40°C / 20% ~ 80% RH
- 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; 15000 ± 100 Pcs/roll, 4 rolls/ctn (Actual Qty as per Shipping Mark).





