

# **PRODUCT DATASHEET**

# Dual Frequency RFID Label - 30 x50

# RAIN RFID (UHF) + NFC technology in one chip

This special label can operate on both NFC and RAIN RFID (UHF) technologies. Powered by em|echo-V chip (EM4425), it provides an application crossover and opens the possibility to apply just one label to fit all use cases in two domains.

### Features

- Dual frequency in one chip
- Shared memory

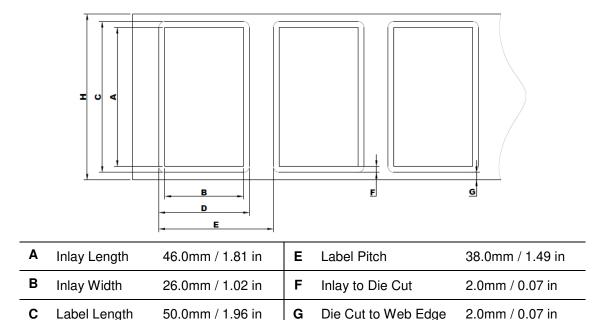
## Applications

- Inventory and Supply Chain Management
- Customer Engagement
- Logistics

#### **Physical Specification**



55.0mm / 2.16 in



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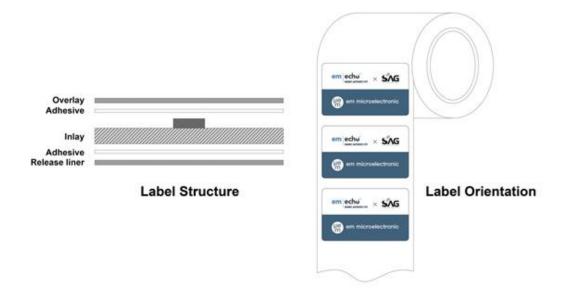
Web Width

\*Size is mainly in metric measurement.

30.0mm / 1.81 in

Label Width

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Label Structure	
Overlay	White Glossy OPP
Adhesive 1	Acrylic
Inlay	Double-sided aluminum antenna design
Adhesive 2	Acrylic
Release Liner	Glassine

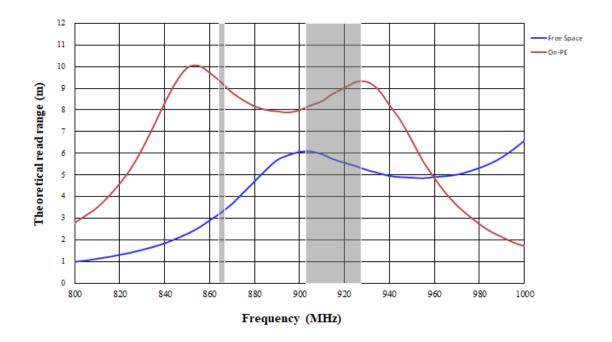
RF Specification	
ІС Туре	EM 4425
Memory	(HF) UID 64 bit
	(UHF) TID 96 bit
	EPC up to 480 bit
	HF/UHF Shared Memory 2048 bit
RF Interface Protocol	HF: ISO 15693 / ISO 18000-3 M1 / NFC Forum Type5
	UHF: ISO 18000-63 / EPC <sup>™</sup> Gen2v2
Operating Frequency	860-960 MHz / 13.56 MHz
Read Range (2W ERP)	Up to 8 M / 26.24 ft

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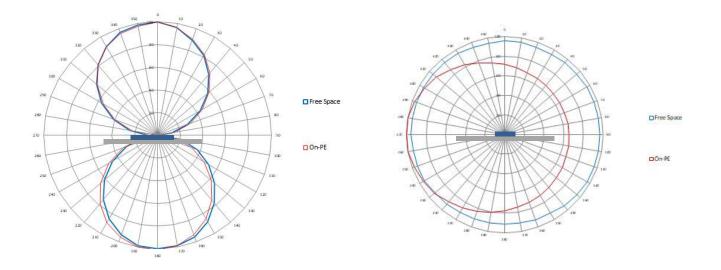
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## UHF Read Range



- Reading distance might differ on the material which the tag is attached. SAG can help fine tune the antenna to obtain the optimized reading performance.
- Front Reading
- Applicable Surface : Free space / PE
- Side Reading
- Applicable Surface : Free space / PE



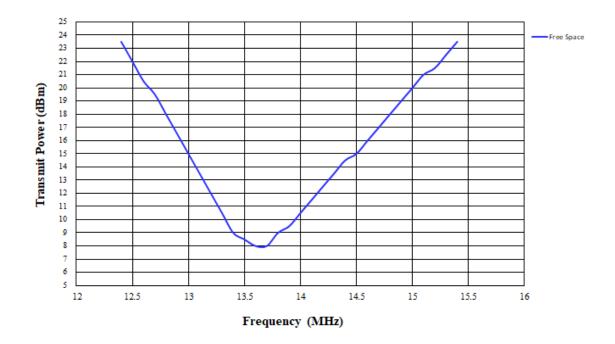
\*Reading distance shown in the figure is measured by Voyantic Tagformance. Actual reading performance is subject to the environment in practice.

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# HF Sensitivity Curve



\*HF sensitivity shown in the figure is measured by Voyantic Tagformance HF Loop Antenna C60. Actual sensitivity performance is subject to the environment in practice.

Environmental Specification	
Operating Temperature	-25°C to +70°C
Storage Temperature	-25°C to +70°C
ESD Protection	±2 kV peak according to IEC 61000-4-2 Contact discharge
Warranty	One Year

Ref. No: Digi-key / 441070626-02402

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