



EOS-915 I3

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## Datasheet

### Versatility and Reliable Performance in NFC and Vicinity HF Environments

The EOS-915 I3 inlay offers a tiny footprint (antenna size 13 x 13 mm), reliable high performance and full compatibility with both NFC-enabled phones and longer-range Vicinity HF readers typically providing read distances of up to 1.5 meter / 4.9 feet.

That makes the new inlay a highly versatile choice for multiple applications including, brand protection, customer experiences, item-level tagging, product authentication, and smart packaging in market segments including retail (non-food), logistics, healthcare, and industrial manufacturing to increase operational efficiency and improve NFC customer interaction.

EOS-915 I3 uses NXP's new high-performance ICODE 3 HF chip with 23pF internal tuning capacitance. The IC features a customizable digital originality signature, to assure tag origin in cloning detection, and offers enhanced privacy modes. It operates at 13.56MHz



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from long-range HF readers and NFC phones for cross-range operations, compliant to protocols ISO/IEC 15693 (Vicinity) and NFC Forum Type 5 Tag. ICODE 3 also boasts a fast read rate of up to 212 kbit/second, a large user memory of 2400 bits, and Extended NFC features for Android and iOS.

EOS-915 I3 is available in dry, wet, and paper-face delivery formats.

Like all Tageos' RFID products, EOS-915 ICODE 3 complies with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System, as well as Environmental Directives RoHS and REACH, utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper whenever possible.

#### Overview

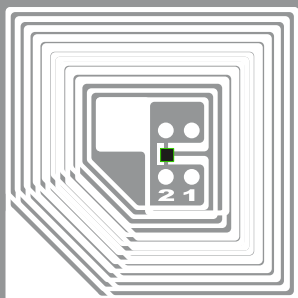
IC:	NXP ICODE3
User Memory:	2400 bit
UID:	64 bit
Frequency Band:	13.56 MHz
Protocol:	ISO/IEC 15693 (Vicinity) / Type 5 Tag

#### Application Areas

- Brand Protection
- Customer Experience
- Inventory Visibility
- Item Level Tagging
- Product Authentication
- Smart Packaging
- ... and many more.



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# EOS-915 I3

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## Technical Overview

	Dry	Wet	Paper-face
Product Code	9100000018	9100000019	9100000020
Antenna Size	13 x 13 mm 0.51 x 0.51 in	13 x 13 mm 0.51 x 0.51 in	13 x 13 mm 0.51 x 0.51 in
Finish Size	-	16 x 16 mm 0.63 x 0.63 in	16 x 16 mm 0.63 x 0.63 in
Web Width	32.00 ± 1 mm 1.260 ± 0.04 in	32.00 ± 1 mm 1.260 ± 0.04 in	32.00 ± 1 mm 1.260 ± 0.04 in
Pitch	19.05 ± 0.2 mm 0.750 ± 0.01 in	19.05 ± 1 mm 0.750 ± 0.04 in	19.05 ± 1 mm 0.750 ± 0.04 in
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET Clear	Paper TT
Inlay Substrate	PET Clear 50µm	PET Clear 50µm	PET Clear 50µm
Inlay Adhesive	-	permanent	permanent
Liner	-	Paper	Paper
Operating Temperature	-40°C / +85°C   -40°F / +185°F @20% to 90% RH	-40°C / +85°C   -40°F / +185°F @20% to 90% RH	-40°C / +85°C   -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested	100% tested



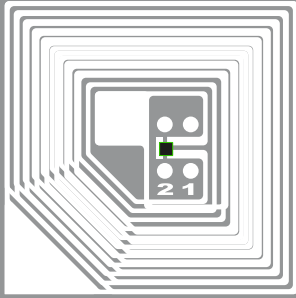
### Contact:

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**Graphs:** All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to minimize Electro Static Discharge. Tageos reserves the right to change its products and services at any time without notice. As our products are used in circumstances beyond our control, we cannot be held liable for any damages caused through their use. This is a general purpose product not designed or intended for any specific application.

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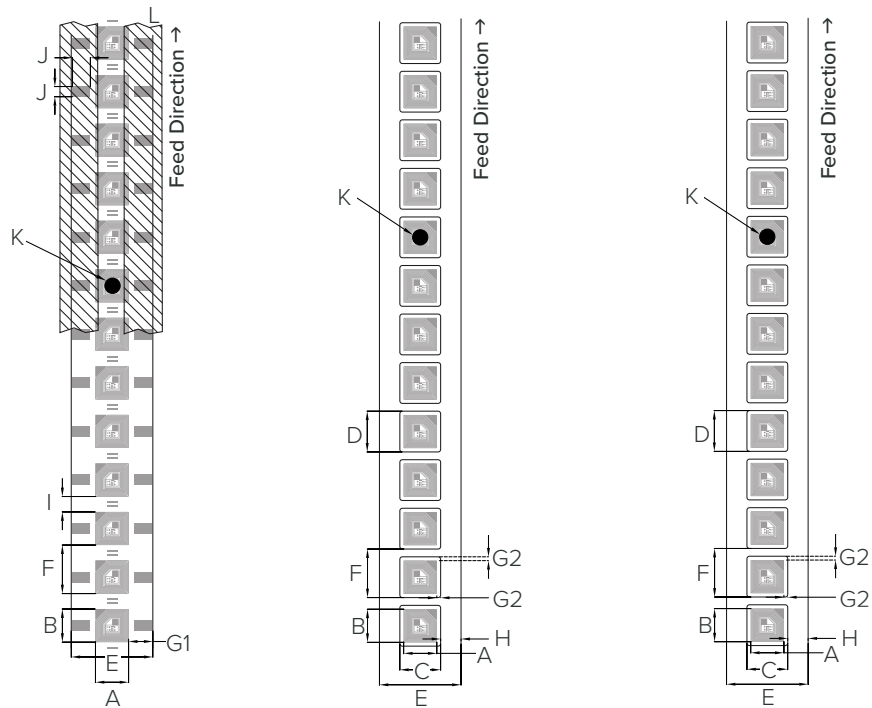


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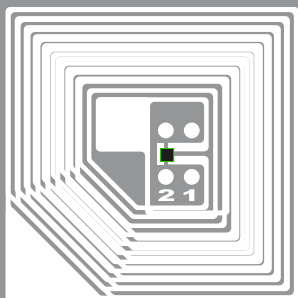
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# Product Specifications

## Mechanical Dimensions



		Dry	Wet	Paper-face
Product Code		9100000018	9100000019	9100000020
Antenna Size	A x B	13 x 13 mm / 0.51 x 0.51 in	13 x 13 mm / 0.51 x 0.51 in	13 x 13 mm / 0.51 x 0.51 in
Finish Size	C x D	- / -	16 x 16 mm / 0.63 x 0.63 in	16 x 16 mm / 0.63 x 0.63 in
Web Width	E	32.00 ± 1 mm / 1.260 ± 0.04 in	32.00 ± 1 mm / 1.260 ± 0.04 in	32.00 ± 1 mm / 1.260 ± 0.04 in
Pitch	F	19.05 ± 0.2 mm / 0.750 ± 0.01 in	19.05 ± 1 mm / 0.750 ± 0.04 in	19.05 ± 1 mm / 0.750 ± 0.04 in
Antenna to Web Edge	G1	9.5 ± 1 mm / 0.374 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	8.0 ± 1 mm / 0.315 ± 0.04 in	8.0 ± 1 mm / 0.315 ± 0.04 in
Die-Cut to Web Edge	H	-	1.5 ± 1 mm / 0.059 ± 0.04 in	1.5 ± 1 mm / 0.059 ± 0.04 in
Antenna Gap	I	6.05 mm / 0.238 in	-	-
Converting Spot	J	7.00 x 4.00 mm / 0.276 x 0.157 in	-	-
Bad Mark	K	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleave	L	Yes	No	No
Registration Mark (RM)	M	-	-	-
RM Postion	N	-	-	-



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## Packing Details

	Dry	Wet	Paper-face
Product Code	9100000018	9100000019	9100000020
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	301 mm / 11.85 in	340 mm / 13.39 in	197 mm / 7.76 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	30 000 (-0% +1.5%)	24 000 (-0% +1.5%)	5 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in	26.0 x 26.0 x 37.0 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	3	3	9
Inlay/Box	90 000	72 000	45 000
Box Gross Weight	7.8 kg / 17.19 lbs	6.45 kg / 14.21 lbs	5.54 kg / 12.21 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlay/Pallet	4 320 000	3 456 000	1 620 000
Pallet Gross Weight	399 kg / 880 lbs	334 kg / 736 lbs	224 kg / 494 lbs

### Contact:

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