EOS-400 U7xm-2k

TAGEOS

Datasheet

Extended Memory and Reliable Performance on Dielectric Materials

The EOS-400 U7XM-2k inlay is designed for robust performance on materials with a high dielectric load such as PTFE (Teflon), PMMA (Acrylic Glass), PU(Polyurethan), or similar. In combination with its extended EPC and user memory, it is particularly suitable for inventory visibility and other applications in the automotive industry, logistics, and supply chain management.

EOS-400 U7XM-2k is equipped with a UCODE 7XM ICs from NXP. With its high performance and 2-kbit of user memory, the IC is well suited for applications that require high read range and extra user memory to store customer- or product-specific data.

Available in dry, wet and paper-face delivery format, the RAIN RFID inlay complies with global frequency standards.

Like all Tageos' RFID products, the EOS-400 U7XM-2k inlay is compliant with ISO 9001.2015 Quality Management System.

Tageos is one of the first companies to have successfully completed the ARC Quality Certification from Auburn University RFID Lab. All products comply with Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.

Overview

IC:	NXP UCODE 7xm-2k
EPC/User Memory:	448 / 2048 bit
TID Memory:	96 bit / 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 ISO 18000-63

Application Areas

- Automotive
- Industrial Manufacturing
- Inventory Visibility
- Logistics
- Supply Chain Management

ARC QUALITY | 2021

EOS-400 U7xm-2k

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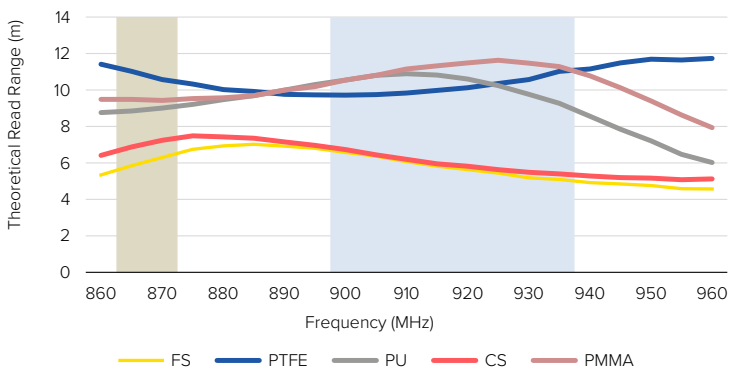
Technical Overview

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	4000000116	4000000115	4000000122
Antenna Size	70 x 10 mm	70 x 10 mm	70 x 10 mm
	2.76 x 0.39 in	2.76 x 0.39 in	2.76 x 0.39 in
Finish Size	-	73 x 13 mm	73 x 17 mm
	-	2.87 x 0.51 in	2.87 x 0.51 in
Web Width	76 ± 1 mm	76 ± 1 mm	76 ± 1 mm
	2.99 ± 0.04 in	2.99 ± 0.04 in	2.99 ± 0.04 in
Pitch	20 ± 0.2 mm	20 ± 0.2 mm	20 ± 0.2 mm
	0.79 ± 0.01 in	0.79 ± 0.01 in	0.79 ± 0.01 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear PET	TT Paper
Inlay Substrate	Clear PET	Clear PET	Clear PET
Inlay Adhesive	-	Permanent	Permanent
Liner	-	Paper	Paper
Operating Temperature	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C
	-40°F / +185°F	-40°F / +185°F	-40°F / +185°F
Final Inspection	100% tested	100% tested	100% tested
ARC Approvals	-	-	-

Read Range



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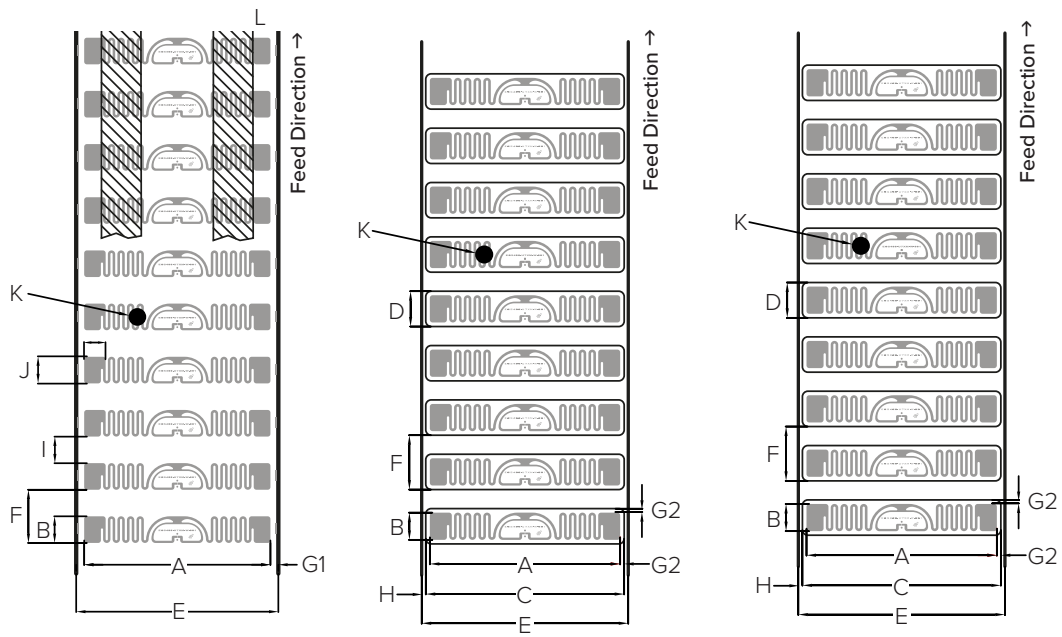
RoHS compliant

REACH COMPLIANCE

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.

Product Specifications

Mechanical Dimensions



		Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code		4000000116	4000000115	4000000122
Antenna Size	A x B	70 x 10 mm / 2.76 x 0.39 in	70 x 10 mm / 2.76 x 0.39 in	70 x 10 mm / 2.76 x 0.39 in
Finish Size	C x D	-	73 x 13 mm / 2.87 x 0.51 in	73 x 13 mm / 2.87 x 0.51 in
Web Width	E	76 ± 1 mm / 2.99 ± 0.04 in	76 ± 1 mm / 2.99 ± 0.04 in	76 ± 1 mm / 2.99 ± 0.04 in
Pitch	F	20 ± 0.2 mm /0.79 ± 0.01 in	20 ± 0.2 mm /0.79 ± 0.01 in	20 ± 0.2 mm /0.79 ± 0.01 in
Antenna to Web Edge	G1	3 ± 1 mm / 0.12 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H	-	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Antenna Gap	I	10 mm / 2.76 in	-	-
Converting Spot	J	6.3 x 10 mm / 0.25 x 0.49 in, antenna section can be used		
Bad Mark	K	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L	yes	no	no

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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	4000000116	4000000115	4000000122
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Roll Outer Diameter	331 mm / 13.03 in	329 mm / 12.95 in	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	40 000	23 000	5 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17cm / 15.5 x 15.3 x 6.7 in	39.5 x 39 x 17cm / 15.5 x 15.3 x 6.7 in	26 x 26 x 37 cm / 10.2 x 10.2 x 14.5 in
Roll/Box	1	1	4
Inlays/Box	40 000	23 000	20 000
Box Gross Weight	6.59 kg / 14.53 lbs	6.20 kg / 13.67 lbs	7.14 kg / 15.74 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
Inlays/Pallet	1 920 000	1 104 000	720 000
Pallet Gross Weight	341 kg / 752 lbs	323 kg / 712 lbs	282 kg / 622 lbs

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