

EOS-500 U9

Datasheet

TAGEOS

Reliable Solution for Use on Several Dielectric Materials

The EOS-500 U9 inlay provides robust performance on materials with varying dielectric loads. Featuring superior read-ranges globally, the inlay is a solution of choice for inventory visibility and other applications in industrial manufacturing, logistics, and supply chain management.

Available in a dry, 3up wide web delivery format, EOS-500 U9 provides highly stable performance throughout all frequency ranges worldwide.

EOS-500 U9 uses NXP's UCODE 9 IC which is well suited for inventory management applications and enables long read distance and fast inventory of dense RFID tag populations. The chip also features 96-bit EPC; kill password; EPC and kill password permalock; self-adjusting impedance; and memory integrity safeguards.

Tageos maintains ARC Quality Certification for all its manufacturing sites worldwide and is one of the first companies to be certified by Auburn University's RFID Lab since 2020. EOS-500 U9 complies with ARC specification P.

Tageos is certified to ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, with all manufacturing facilities covered by FSC® Chain of Custody Multi-Site certification (C166692). In addition, all Tageos products comply with RoHS and REACH environmental directives.

Overview

IC:	NXP UCODE 9
EPC/User Memory:	96 bit / bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

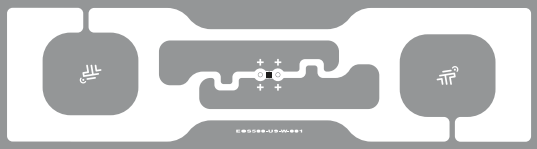
- Automotive
- Inventory Visibility
- Item Level Tagging
- Logistics
- Supply Chain Management

ARC QUALITY | 2025

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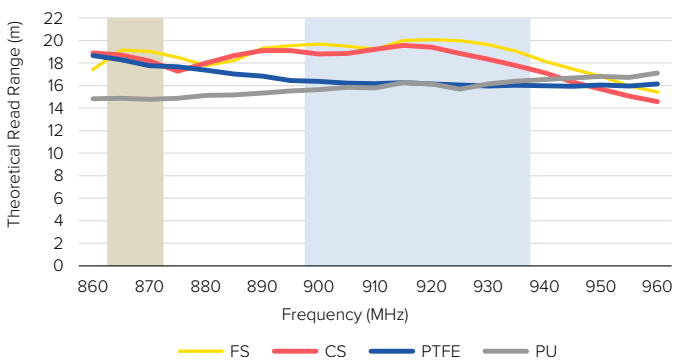


EOS-500 U9

Technical Overview

	Dry - 3up	
Product Code	5000000106	
Antenna Size	94 x 24 mm	
	3.70 x 0.94 in	
Finish Size	-	
	-	
Web Width	340.00 ± 1 mm	
	13.386 ± 0.04 in	
Pitch	30.04 ± 1 mm	105.00 ± 1 mm
	1.183 ± 0.04 in	4.134 ± 0.04 in
ARC Approval	P	
FSC® Certification	-	
Antenna Material	Aluminium	
Front Face	-	
Inlay Substrate	PET Clear 50um	
Inlay Adhesive	-	
Liner	-	
Operating Temperature	-40°C / +85°C | -40°F / +185°F @20% to 90% RH	
Shelf Life	2 years @ +25°C/40%RH	
Final Inspection	100% tested	

Read Range



NXP Gold Partner

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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.

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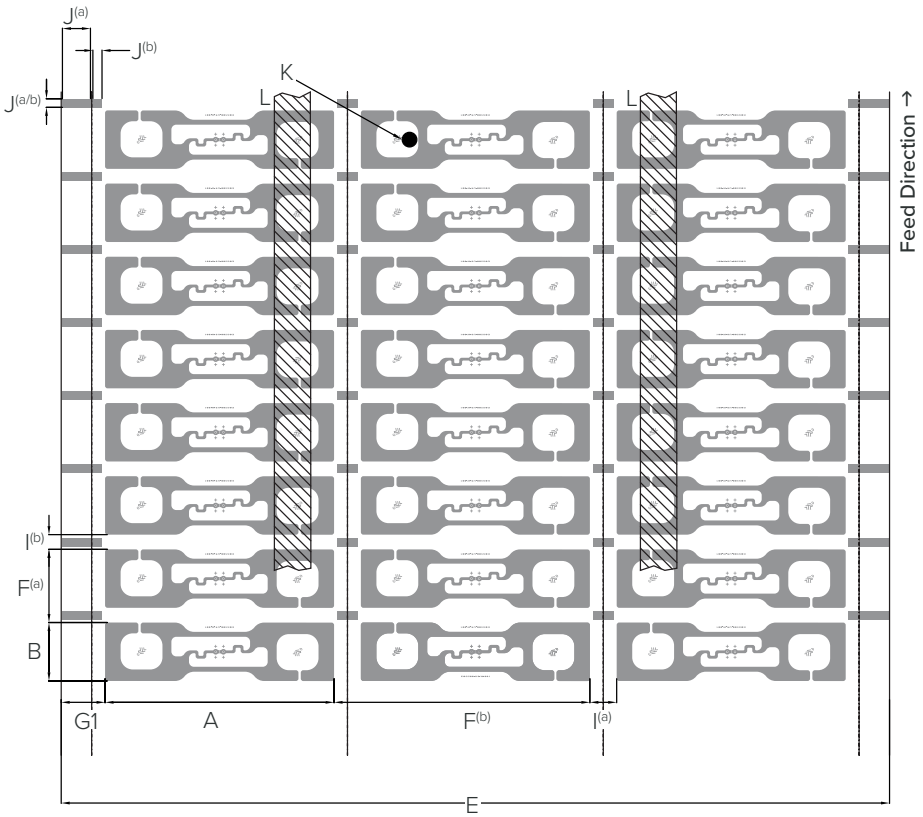


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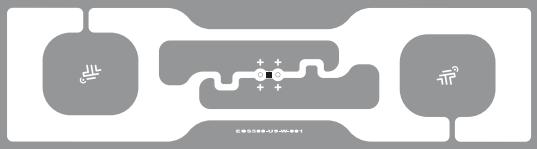
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Product Specifications

Mechanical Dimensions



		Dry - 3up	
Product Code		5000000106	
Antenna Size	A x B	94 x 24 mm / 3.70 x 0.94 in	
Finish Size	C x D	- / -	
Web Width	E	340.00 ± 1 mm / 13.386 ± 0.04 in	
Pitch	F	30.04 ± 1 mm / 1.183 ± 0.04 in[a]	105.00 ± 1 mm / 4.134 ± 0.04 in[b]
Antenna to Web Edge	G1	18.0 ± 1 mm / 0.709 ± 0.04 in	
Antenna to Die-cut	G2	-	
Die-cut to Web Edge	H	-	
Antenna Gap	I	11.00 mm / 0.433 in[a]	6.04 mm / 0.238 in[b]
Converting Spot	J	11.50 x 3.50 mm / 0.453 x 0.138 in[a]	3.80 x 3.50 mm / 0.149 x 0.138 in[b]
Bad Mark	K	Ø 6.0 mm / 0.236 in	
Interleaves	L	Yes	



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Packing Details

	Dry - 3up
Product Code	5000000106
Delivery Format	Roll (Multi row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	327 mm / 12.87 in
Unwinding Direction	Inlay on outside of roll
Leading Tape	- / -
Trailing Tape	- / -
Standard Roll Size	78 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%
Box Dimensions	38.5 x 38.5 x 37 cm / 15.16 x 15.16 x 14.57 in
Roll/Box	1
Inlays/Box	78 000
Box Gross Weight	23.53 kg / 51.88 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	18
Inlays/Pallet	1 404 000
Pallet Gross Weight	449 kg / 990 lbs

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RoHS compliant

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