

EOS-350 M750

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Datasheet



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High Performance and Small Size for Aviation Baggage Tracking

The EOS-350 M750 inlay was designed with IATA Resolution 753 in mind and combines two features that make it ideal for airline baggage tracking applications: an extra-compact size – a 17 % smaller antenna than the second smallest product on ARC’s “Approved Inlay List - Spec U” (as of December 2021) – and the pioneering use of Impinj’s M700 IC technology.

As a particularly small, light RAIN RFID inlay that doesn’t compromise on global performance, EOS-350 M750 contributes to reducing the carbon footprint of aircraft operation.

Equipped with 96-bit EPC memory and 32-bit User memory, the Impinj M750 RAIN RFID chip provides high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags.

It lends itself to solutions that include high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns. EOS-350 M750 inlay is available in dry and wet format.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-350 M750 complies with ARC specification U.

Like all Tageos’ RFID products, EOS-350 M750 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 materials such as FSC® certified paper whenever possible.

Overview

IC:	Impinj M750
EPC/User Memory:	96 bit / 32 bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 ISO 18000-6c

Application Areas

- Aviation
- Luggage Tracking
- Inventory Visibility
- Item Level Tagging





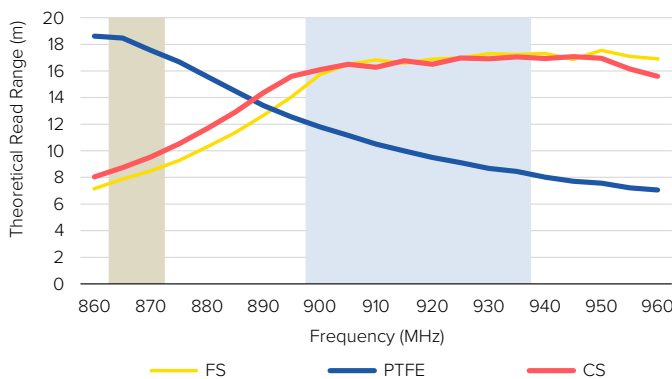
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Technical Overview

	Dry inlay	Wet Inlay
Product Code	3500000010	3500000012
Antenna Size	30 x 60 mm 1.18 x 2.36 in	30 x 60 mm 1.18 x 2.36 in
Finish Size	-	33 x 63 mm 1.30 x 2.48 in
Web Width	40.0 ± 1 mm 1.575 ± 0.04 in	40.0 ± 1 mm 1.575 ± 0.04 in
Pitch	66.68 ± 0.2 mm 2.625 ± 0.01 in	66.68 ± 1 mm 2.625 ± 0.04 in
Antenna Material	Aluminium	Aluminium
Front Face	-	Clear PET
Inlay Substrate	Clear PET	Clear PET
Inlay Adhesive	-	Permanent
Liner	-	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested
ARC Approvals	U	U

Read Range



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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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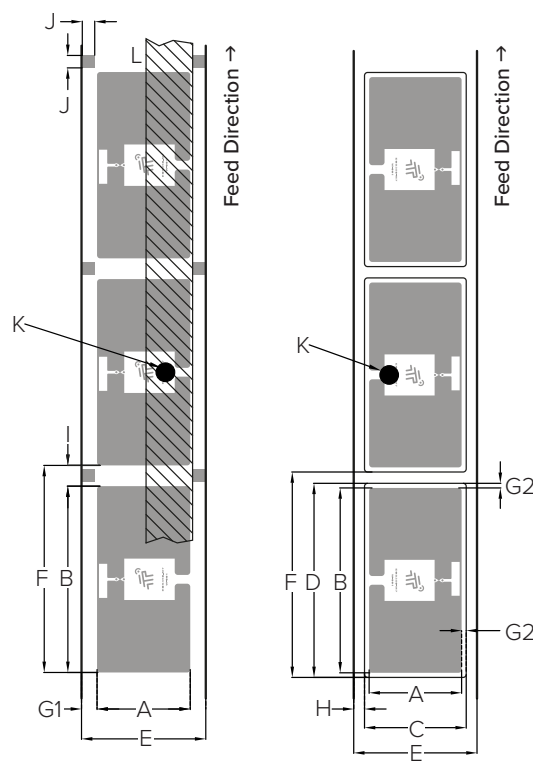


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Product Specifications

Mechanical Dimensions



		Dry Inlay	Wet Inlay
Product Code		3500000010	3500000012
Antenna Size	A x B	30 x 60 mm / 1.18 x 2.36 in	30 x 60 mm / 1.18 x 2.36 in
Finish Size	C x D	-	33 x 63 mm / 1.30 x 2.48 in
Web Width	E	40.0 ± 1 mm / 1.575 ± 0.04 in	40.0 ± 1 mm / 1.575 ± 0.04 in
Pitch	F	66.68 ± 0.2 mm / 2.625 ± 0.01 in	66.68 ± 1 mm / 2.625 ± 0.04 in
Antenna to Web Edge	G1	5.0 ± 1 mm / 0.197 ± 0.04 in	-
Antenna to Die-cut	G2	-	1.5 ± 1 mm / 0.059 ± 0.04 in
Die-cut to Web Edge	H	-	3.5 ± 1 mm / 0.138 ± 0.04 in
Antenna Gap	I	6.68 mm / 0.263 in	-
Converting Spot	J	4.0 x 4.0 mm / 0.157 x 0.157 in	-
Bad Mark	K	Ø 6 mm / 0.236 in	Ø 6 mm / 0.236 in
Interleaves	L	yes	no



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Packing Details

	Dry Inlay	Wet Inlay
Product Code	3500000010	3500000012
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	341 mm / 13.43 in	318 mm / 12.52 in
Unwinding Direction	Label on outside of roll	Label on outside of roll
Standard Roll Size	12 800	6 400
Min. Guar. Yield/Roll	98.5%	98.5%
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
Roll/Box	3	3
Inlays/Box	38 400	19 200
Box Gross Weight	10.59 kg / 23.35 lbs	9.93 kg / 21.90 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
Boxes/Pallet	48	48
Inlays/Pallet	1 843 200	921 600
Pallet Gross Weight	533 kg / 1175 lbs	502 kg / 1107 lbs

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