



EOS-402 R6-P

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Datasheet

Streamlined, Versatile Inlay for Global Retail and General Industrial Applications

With its compact, streamlined antenna design and the excellent global RF performance of its innovative IC, the EOS-402 R6-P inlay is the product of choice for a wide range of applications. It comprises brand protection and inventory management for apparel, fashion items and homewares, as well as supply chain, logistics and general industrial tagging purposes.

The inlay is available in dry, wet and paper-face format, making it the perfect basis for solutions that will satisfy the needs of the retail industry as well as many general industrial segments.

EOS-402 uses Impinj's Monza® R6-P chip from Impinj. The IC features a flexible memory structure with interchangeable EPC (128/96), and user memory (32/64). The R6-P chip also provides access and kill password controls to prevent unauthorized write



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access and allow deactivation of the IC.

Tageos maintains annual ARC Quality Certification for all its manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. EOS-402 R6-P complies with ARC specifications F, I, L, O, Q, R, Y2, W5 and W6.

In addition, all Tageos products meet the RoHS and REACH environmental directives.

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible.

Overview

IC:	Impinj Monza R6-P
EPC/User Memory:	128 (96) bit / 32 (64) 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

- Apparel
- Inventory Visibility
- Item Level Tagging
- Pharma & Healthcare
- Supply Chain Management



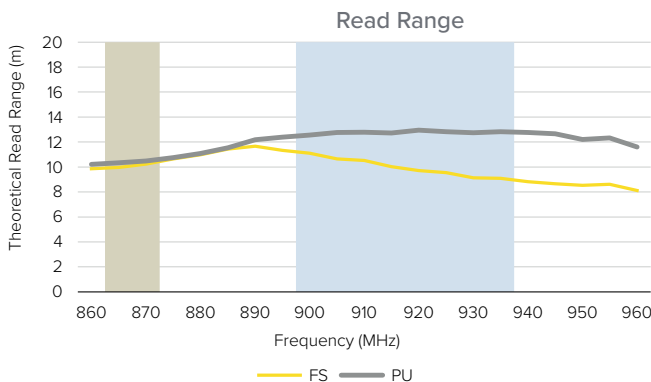


EOS-402 R6-P

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Technical Overview

	Dry	Wet	Paper-face
Product Code	4000000112	4000000108	4000000123
Antenna Size	70 x 14 mm 2.76 x 0.55 in	70 x 14 mm 2.76 x 0.55 in	70 x 14 mm 2.76 x 0.55 in
Finish Size	- -	73 x 17 mm 2.87 x 0.67 in	73 x 17 mm 2.87 x 0.67 in
Web Width	76.00 ± 1 mm 2.992 ± 0.04 in	76.00 ± 1 mm 2.992 ± 0.04 in	76.00 ± 1 mm 2.992 ± 0.04 in
Pitch	20.00 ± 0.2 mm 0.787 ± 0.01 in	20.00 ± 1 mm 0.787 ± 0.04 in	20.00 ± 1 mm 0.787 ± 0.04 in
ARC Approvals	F, I, L, O, Q, R, Y2, W5, W6	F, I, L, O, Q, R, Y2, W5, W6	F, I, L, O, Q, R, Y2, W5, W6
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:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com

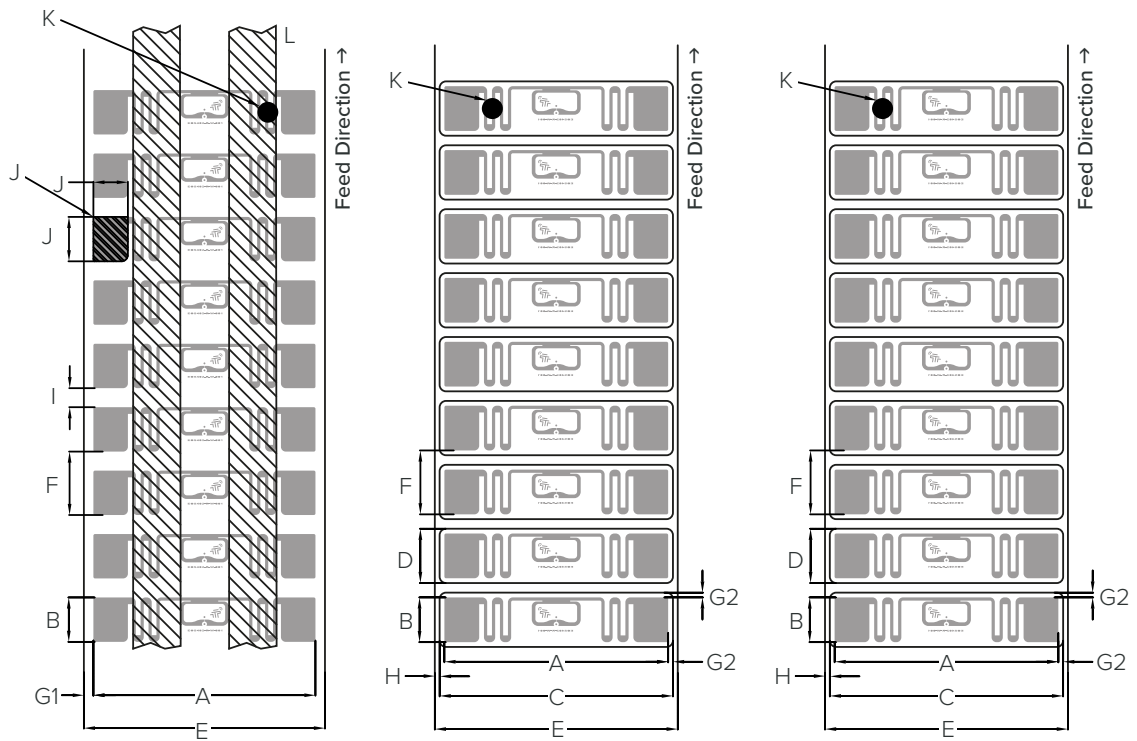
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	400000112	400000108	400000123
Antenna Size	A x B 70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in
Finish Size	C x D - / -	73 x 17 mm / 2.87 x 0.67 in	73 x 17 mm / 2.87 x 0.67 in
Web Width	E 76.00 ± 1 mm / 2.992 ± 0.04 in	76.00 ± 1 mm / 2.992 ± 0.04 in	76.00 ± 1 mm / 2.992 ± 0.04 in
Pitch	F 20.00 ± 0.2 mm / 0.787 ± 0.01 in	20.00 ± 1 mm / 0.787 ± 0.04 in	20.00 ± 1 mm / 0.787 ± 0.04 in
Antenna to Web Edge	G1 3.0 ± 1 mm / 0.118 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.059 ± 0.04 in	1.5 ± 1 mm / 0.059 ± 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 6.00 mm / 0.236 in	-	-
Converting Spot	J 11.00 x 14.00 mm / 0.433 x 0.551 in, antenna section can be used	-	-
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Wet	Paper-face
Product Code	4000000112	4000000108	4000000123
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	289 mm / 11.38 in	342 mm / 13.46 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	30 000 (-0% +1.5%)	25 000 (-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	1	1	4
Inlays/Box	30 000	25 000	20 000
Box Gross Weight	5.1 kg / 11.25 lbs	7.7 kg / 16.97 lbs	8.44 kg / 18.62 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	1 440 000	1 200 000	720 000
Pallet Gross Weight	270 kg / 595 lbs	395 kg / 871 lbs	329 kg / 725 lbs

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