



EOS-402 R6

TAGEOS

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 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 R6 uses Impinj's Monza® R6 IC, which offers high performance across all global frequency standards. The chip also features 96-bit EPC; permalock and self-adjusting impedance.



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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 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
EPC/User Memory:	96 bit / - 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

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



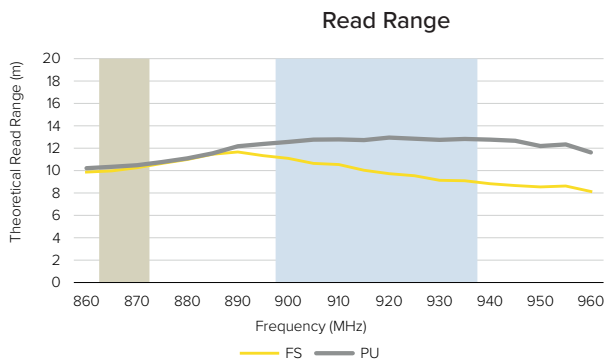


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Technical Overview

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	4000000120	4000000119	4000000110
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 ± 1 mm 2.99 ± 0.04 in	76 ± 1 mm 2.99 ± 0.04 in	76 ± 1 mm 2.99 ± 0.04 in
Pitch	20 ± 0.2 mm 0.79 ± 0.01 in	20 ± 1 mm 0.79 ± 0.04 in	20 ± 1 mm 0.79 ± 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	-	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°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 us:
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



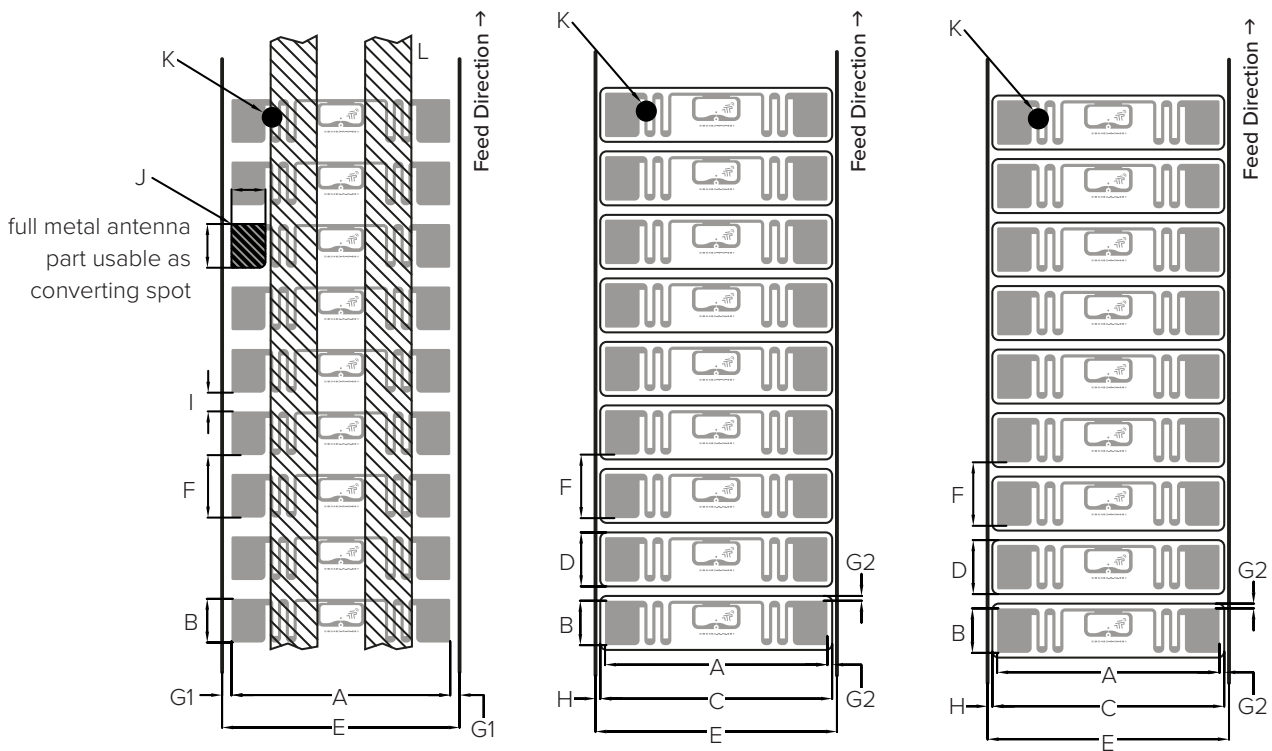
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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 Inlay	Wet Inlay	Paper-face Inlay
Product Code	4000000120	4000000119	4000000110
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 ± 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 ± 1 mm / 0.79 ± 0.04 in	20 ± 1 mm / 0.79 ± 0.04 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 6 mm / 0.24 in	-	-
Converting Spot	J 11 x 14 mm / 0.43 x 0.55 in	-	-
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	4000000120	4000000119	4000000110
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	309 mm / 12.17 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	30 000 (-0% +1.5%)	23 000 (-0% +1.5%)	5 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	26 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	1	1	4
Inlays/Box	30 000	23 000	20 000
Box Gross Weight	6.47 kg / 14.26 lbs	7.14 kg / 15.74 lbs	8.46 kg / 18.65 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	1 104 000	720 000
Pallet Gross Weight	336 kg / 741 lbs	368 kg / 811 lbs	330 kg / 728 lbs

Contact us:
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com

 **RoHS**
compliant



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