

EOS-241 R6

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Datasheet



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Performance and Compatibility for High-volume Applications

The EOS-241 R6 inlay offers a unique combination of superior read performance, compact antenna size, and IC characteristics predominantly required for item-level applications in apparel retail and logistics. It offers high orientation sensitivity and excellent overall performance on diverse materials and in dense tagging environments.

EOS-241 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.

The EOS-241 R6 inlay is available in dry, wet and paper-face format.

Like all Tageos' RFID products, EOS-241 R6 IC 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.

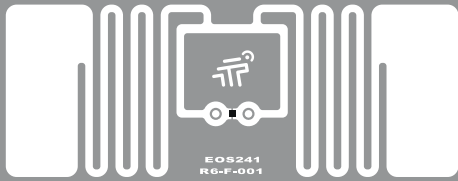
Overview

IC:	Impinj Monza R6
EPC/User Memory:	96 bit +/- bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 - ISO 18000-6c

Application Areas

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



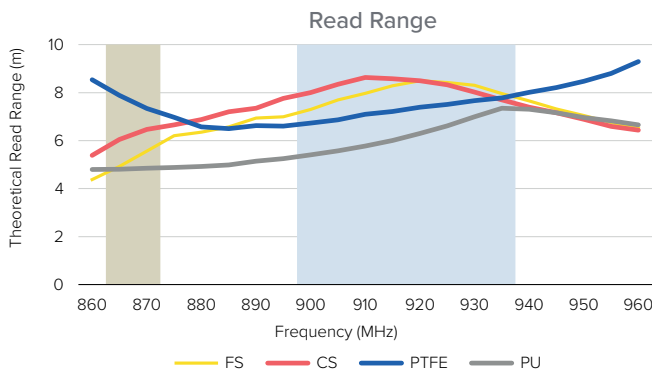


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Technical Overview

	Dry	Wet	Paper-face
Product Code	2400000234	2400000235	2400000236
Antenna Size	42 x 16 mm 1.65 x 0.63 in	42 x 16 mm 1.65 x 0.63 in	42 x 16 mm 1.65 x 0.63 in
Finish Size	-	44 x 18 mm 1.73 x 0.71 in	44 x 18 mm 1.73 x 0.71 in
Web Width	48.00 ± 1 mm 1.890 ± 0.04 in	48.00 ± 1 mm 1.890 ± 0.04 in	48.00 ± 1 mm 1.890 ± 0.04 in
Pitch	22.23 ± 0.2 mm 0.875 ± 0.01 in	22.23 ± 1 mm 0.875 ± 0.04 in	22.23 ± 1 mm 0.875 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET Clear	PET Clear	PET Clear
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 Time	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
ARC Approvals	-	-	-



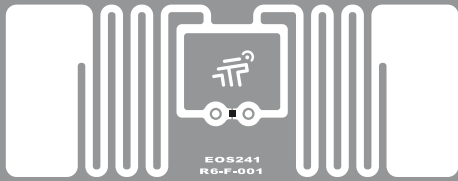
Contact:

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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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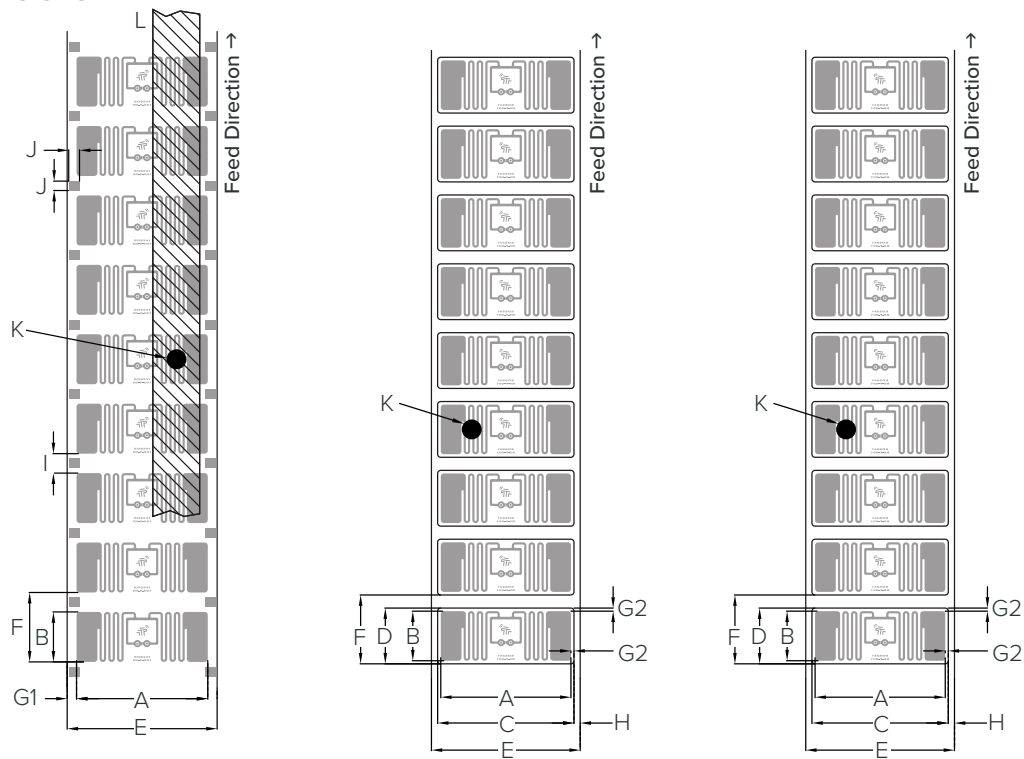


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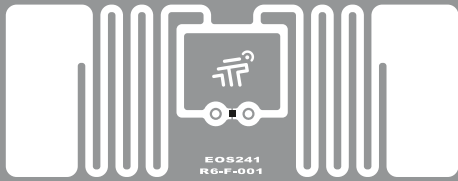
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	2400000234	2400000235	2400000236
Antenna Size	A x B 42 x 16 mm / 1.65 x 0.63 in	42 x 16 mm / 1.65 x 0.63 in	42 x 16 mm / 1.65 x 0.63 in
Finish Size	C x D -	44 x 18 mm / 1.73 x 0.71 in	44 x 18 mm / 1.73 x 0.71 in
Web Width	E 48.00 ± 1 mm / 1.890 ± 0.04 in	48.00 ± 1 mm / 1.890 ± 0.04 in	48.00 ± 1 mm / 1.890 ± 0.04 in
Pitch	F 22.23 ± 0.2 mm / 0.875 ± 0.01 in	22.23 ± 1 mm / 0.875 ± 0.04 in	22.23 ± 1 mm / 0.875 ± 0.04 in
Antenna to Web Edge	G1 3.0 ± 1 mm / 0.118 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.0 ± 1 mm / 0.039 ± 0.04 in	1.0 ± 1 mm / 0.039 ± 0.04 in
Die-cut to Web Edge	H -	2.0 ± 1 mm / 0.079 ± 0.04 in	2.0 ± 1 mm / 0.079 ± 0.04 in
Antenna Gap	I 6.23 mm / 0.245 in	-	-
Converting Spot	J 3.45 x 3.00 mm / 0.136 x 0.118 in	-	-
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	2400000234	2400000235	2400000236
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	279 mm / 10.98 in	338 mm / 13.31 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	25 000	22 000	4 500
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	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	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in
Roll/Box	2	6	2
Inlays/Box	50 000	132 000	9 000
Box Gross Weight	5.7 kg / 12.57 lbs	25.34 kg / 55.87 lbs	2.94 kg / 6.48 lbs
Pallet Dimensions	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	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in
Boxes/Pallet	48	36	48
Inlays/Pallet	2 400 000	4 752 000	432 000
Pallet Gross Weight	299 kg / 659 lbs	937 kg / 2 066 lbs	166 kg / 366 lbs

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