

Product Material Declaration Datasheet

Issue Date: August 6, 2025

Products: RAIN RFID Tag Chips
Impinj Part Numbers:

SKU	Product Name	Die Weight
IPJ-W15XX-XXX	Monza 4	80.0 µg/die
IPJ-W16XX-XXX	Monza 5	50.0 µg/die
IPJ-W17XX-XXX	Monza R6	50.0 µg/die
IPJ-W1710-XXX	Monza R6-P	50.0 µg/die
IPJ-W1730-XXX	Monza R6-A	50.0 µg/die
IPJ-M730A-XXX	Impinj M730	34.0 µg/die
IPJ-M750A-XXX	Impinj M750	34.0 µg/die
IPJ-M770A-XXX	Impinj M770	37.0 µg/die
IPJ-M775A-XXX	Impinj M775	37.0 µg/die
IPJ-M780A-XXX	Impinj M780	50.0 µg/die
IPJ-M781A-XXX	Impinj M781	50.0 µg/die
IPJ-M830X-XXX	Impinj M830	27.3 µg/die
IPJ-M850X-XXX	Impinj M850	27.3 µg/die

Summary:

The compliance of any product designated is based upon evidence from the manufacturer that the part number complies with the RoHS and REACH Directive. Impinj, Inc. has taken all the reasonable steps to confirm manufacturers' statements and other evidence regarding the absence of the restricted substances to support the manufacturers' claim of compliance.

RoHS

The RAIN RFID Tag Chips, supplied by Impinj, Inc., are RoHS compliant, based upon the analysis results. All part numbers within these product families meet the Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS2), and 2015/863 (RoHS3), including exemptions below:

Exemption	Exemption Description
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35% lead by weight
6(b)	Lead as an alloying element in aluminum containing up to 0.4% lead by weight
6(c)	Copper alloy containing up to 4% lead by weight
7(a)	Lead in high melting temperature type solders (i.e., lead-based alloys containing 85% by weight or more lead)

7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g., piezoelectronic devices, or in a glass or ceramic matrix compound
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TABLE 1: Identifies environmentally banned substances related to the Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS2), and 2015/863 (RoHS3). Impinj products do not intentionally contain these substances beyond trace element amounts.

TABLE 1: RoHS banned substance limits

Substances / Compounds	Weight (mg)	PPM	Analysis
Hexavalent Chromium and Compounds	0	<1000	MSDS/Supplier
Lead and Lead Compounds	0	<1000	MSDS/Supplier
Mercury and Mercury Compounds	0	<1000	MSDS/Supplier
Polybrominated Biphenyls (PBB)	0	<1000	MSDS/Supplier
Polybrominated Diphenylethers (PBDE)	0	<1000	MSDS/Supplier
Bis(2-ethylhexyl) phthalate (DEHP)	0	<1000	MSDS/Supplier
Butyl benzyl phthalate (BBP)	0	<1000	MSDS/Supplier
Dibutyl phthalate (DBP)	0	<1000	MSDS/Supplier
Diisobutyl phthalate (DIBP)	0	<1000	MSDS/Supplier
Cadmium and Cadmium Compounds	0	<100	MSDS/Supplier

REACH

The products listed do not, to our current knowledge, contain Substances of Very High Concern (SVHC) as listed on the ECHA Candidate List updated on **June 25, 2025**, in concentrations exceeding 0.1% by weight, as specified by Regulation (EC) No.1907/2006 (REACH). Our products are compliant with **REACH 250** regulatory requirements.

TABLE 2: Additional substances not addressed by RoHS or REACH Directives and currently not incorporated into the Impinj Endpoint IC products by design

Additional Substances/Compounds	PPM	Analysis
Fluorinated Compounds	<1.0	MSDS/Supplier
Perfluorooctane Sulfonates (PFOS)	0	MSDS/Supplier
Ozone Depleting Substances	0	MSDS/Supplier
Polychlorinated Biphenyls (PCB)	0	MSDS/Supplier
Polychlorinated Napthalenes (PCN)	0	MSDS/Supplier
Formaldehyde	0	MSDS/Supplier
Shortchain Chlorinated Paraffins (SCCP)	0	MSDS/Supplier
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	0	MSDS/Supplier
Tributyl Tin Oxide (TBTO)	0	MSDS/Supplier
Decabromodiphenylether (DBDE)	0	MSDS/Supplier
Polychlorinated terphenyls (PCT)	0	MSDS/Supplier
Chlorinated Organic Compounds	0	MSDS/Supplier
Brominated Organic Compounds	0	MSDS/Supplier
Asbestos	0	MSDS/Supplier

Azo Compounds	0	MSDS/Supplier
Formaldehyde	0	MSDS/Supplier
Polyvinyl Chloride (PVC) and PVC Blends	0	MSDS/Supplier
Beryllium Oxide	0	MSDS/Supplier
Beryllium Copper	0	MSDS/Supplier
Hydrofluorocarbon (HFC)	0	MSDS/Supplier
Perfluorocarbon (PFC)	0	MSDS/Supplier
Specific Benzotriazole	0	MSDS/Supplier
Antimony (Sb)	0	MSDS/Supplier
Other Specific Phthalates (DINP, DIDP, DNOP, DNHP)	Not Detected	MSDS/Supplier
Halogen	Not Detected	MSDS/Supplier
Halogen-Chlorine (Cl)	Not Detected	MSDS/Supplier
Halogen-Fluorine (F)	Not Detected	MSDS/Supplier
Halogen-Bromine (Br)	Not Detected	MSDS/Supplier
Halogen-Iodine (I)	Not Detected	MSDS/Supplier
Monobromobiphenyl	Not Detected	MSDS/Supplier
Dibromobiphenyl	Not Detected	MSDS/Supplier
Tribromobiphenyl	Not Detected	MSDS/Supplier
Tetrabromobiphenyl	Not Detected	MSDS/Supplier
Pentabromobiphenyl	Not Detected	MSDS/Supplier
Hexabromobiphenyl	Not Detected	MSDS/Supplier
Heptabromobiphenyl	Not Detected	MSDS/Supplier
Octabromobiphenyl	Not Detected	MSDS/Supplier
Nonabromobiphenyl	Not Detected	MSDS/Supplier
Decabromobiphenyl	Not Detected	MSDS/Supplier
Monobromodiphenyl ether	Not Detected	MSDS/Supplier
Dibromodiphenyl ether	Not Detected	MSDS/Supplier
Tribromodiphenyl ether	Not Detected	MSDS/Supplier
Tetrabromodiphenyl ether	Not Detected	MSDS/Supplier
Pentabromodiphenyl ether	Not Detected	MSDS/Supplier
Hexabromodiphenyl ether	Not Detected	MSDS/Supplier
Heptabromodiphenyl ether	Not Detected	MSDS/Supplier
Octabromodiphenyl ether	Not Detected	MSDS/Supplier
Nonabromodiphenyl ether	Not Detected	MSDS/Supplier

TABLE 3: Substances currently incorporated in Impinj RAIN RFID Tag Chips. The substances shown are in PPM.

Incorporated Substances	Monza 4 and Monza 5	Monza R6 and Monza R6-P	Impinj M700 and M800	Source of Data
Silicon	> 950000	>950000	>950000	MSDS/Supplier
Copper	N/A	<103000	<15000	MSDS/Supplier
Nickel	< 215000	<40000	<100	MSDS/Supplier
Aluminum	< 20000	<20000	<10000	MSDS/Supplier
Tungsten	< 20000	<20000	<5000	MSDS/Supplier
Tantalum	N/A	N/A	<1000	MSDS/Supplier
Tantalum Nitride	N/A	N/A	<1000	MSDS/Supplier
Gold	< 7000	N/A	<5	MSDS/Supplier
Silicon Oxide	< 5000	<5000	<25000	MSDS/Supplier
Silicon Nitride	< 5000	<5000	<10000	MSDS/Supplier

Titanium	< 40	<30000	<50	MSDS/Supplier
Titanium Nitride	N/A	N/A	<10	MSDS/Supplier
Polyimide	N/A	N/A	<50	MSDS/Supplier
Vanadium	N/A	<3000	N/A	MSDS/Supplier
Cobalt	< 20	<20	N/A	MSDS/Supplier
Arsenic	< 2	<2	<10	MSDS/Supplier



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