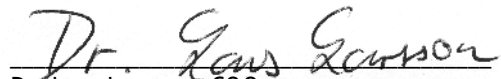


Statement concerning RoHS compliance of TRINAMIC ICs

We refer to the Directive 2011/65/EU of the European Parliament and the Council on the Restriction of the use of certain Hazardous Substances (RoHS) in electrical and electronic equipment.

That means, electrical and electronic equipment put on the market does not contain lead, mercury, cadmium, hexavalent chromium, polybromiated biphenyls (PBB) or polybromiated diphenyl ethers (PBDE) in terms of the RoHS Directive.

Hamburg, Sept. 24, 2018


Dr. Lars Larsson, COO



Supplier's Confirmation - Directive 2011/65/EU - IC

Version 3.3

19.11.2018

Please contact green@trinamic.com for further information

Device	all date codes RoHS compliant	RoHS compliant since date code	mold compound	IPC/JEDEC J-STD-020	Version	MSL	max. reflow temp.	Plating
TMC211-SA	No	0517 (yyww)	Yes	Yes	B	2	260°C *	Matte pure Sn
TMC222-LI	Yes		Yes	Yes	B	2	260°C *	Matte pure Sn
TMC222-SI	No	0517 (yyww)	Yes	Yes	B	2	260°C *	Matte pure Sn
TMC223-LI	Yes		Yes	Yes	B	2	260°C *	Matte pure Sn
TMC223-SI	Yes		Yes	Yes	B	2	260°C *	Matte pure Sn
TMC236A-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC236B-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC236-PA	No	2105 (wwyy)	Yes	Yes	C	3	240°C *	Matte pure Sn
TMC239A-LA	Yes		Yes	Yes	C	2/3 **	260°C	Matte pure Sn
TMC239A-SA	Yes		Yes	Yes	C	2	260°C	Matte pure Sn
TMC239-SA	No	0505 (wwyy)	Yes	Yes	C	2	260°C *	Matte pure Sn
TMC246A-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC246B-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC246-PA	No	3004 (wwyy)	Yes	Yes	C	3	240°C *	Matte pure Sn
TMC249A-LA	Yes		Yes	Yes	C	2/3 **	260°C	Matte pure Sn
TMC249A-SA	Yes		Yes	Yes	C	2	260°C	Matte pure Sn
TMC249-SA	No	0505 (wwyy)	Yes	Yes	C	2	260°C *	Matte pure Sn
TMC260-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC260A-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC261-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC262-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC331A-PC	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC389-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC401-PI	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC406	No	discontinued	Yes	Yes	C	3	225°C	
TMC406A	Yes		Yes	Yes	B	3	260°C	Matte pure Sn
TMC423	No	0610 (yyww)	Yes	Yes	B	3	260°C *	Matte pure Sn
TMC424	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC428-DI20	No	0518 (yyww)	Yes	Yes	C	3	245°C *	Matte pure Sn
TMC428-I	No	0424 (yyww)	Yes	Yes	C	3	260°C *	Matte pure Sn
TMC428-PI24	No	0518 (yyww)	Yes	Yes	C	3	250°C *	Matte pure Sn
TMC429-I	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC429-LI	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC429-PI	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC453	No	discontinued	Yes	Yes	C	3	225°C	
TMC454-BC	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC457-BC	Yes		Yes	Yes	C	3	260°C	Matte pure Sn



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Version 3.3

19.11.2018

Device	all date codes RoHS compliant	RoHS compliant since date code	mold compound	IPC/JEDEC J-STD-020	Version	MSL	max. reflow temp.	Plating
TMC603-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC603A-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2041-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2100-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2100-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2130-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2130-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2160-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2660-PA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2208-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2202-WA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC2224-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC4210-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC4361-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC4670-BI	Yes		Yes	Yes	D	3	260°C	-
TMC4671-ES	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5062-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5130A-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5160-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5160-WA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5161-AA	Yes		Yes	Yes	C	3	260°C	Ni, Pd, Au
TMC5031-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5041-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5062-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC5072-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC6130-LA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC6200-TA	Yes		Yes	Yes	C	3	260°C	Matte pure Sn
TMC8460-BI	Yes		Yes	Yes	C	3	260°C	-
TMC8461-BA	Yes		Yes	Yes	C	3	260°C	-
TMC8462-BA	Yes		Yes	Yes	C	3	260°C	-
TMCC160-LC	Yes		Yes	Yes	C	3	260°C	NiAu

*only valid to RoHS compliant devices

**since date code 1808 MSL3 => prior date codes MSL2