

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TLE9015QU	**Issued**	11. August 2021
MA#	MA005348101		
Package	PG-TQFP-48-11	**Weight***	144.91 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	4.651	3.21	3.21	32094	32094
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		115	
	non noble metal	zinc	7440-66-6	0.067	0.05		461	
	non noble metal	iron	7439-89-6	1.337	0.92		9226	
	non noble metal	copper	7440-50-8	54.283	37.46	38.44	374611	384413
wire	non noble metal	copper	7440-50-8	0.247	0.17	0.17	1703	1703
encapsulation	organic material	carbon black	1333-86-4	0.394	0.27		2718	
	plastics	epoxy resin	-	10.634	7.34		73389	
	inorganic material	silicondioxide	60676-86-0	67.745	46.75	54.36	467512	543619
leadfinish	noble metal	silver	7440-22-4	0.001			7	
	noble metal	palladium	7440-05-3	0.001			8	
	noble metal	gold	7440-57-5	0.002			12	
	non noble metal	nickel	7440-02-0	1.808	1.25	1.25	12480	12507
plating	noble metal	silver	7440-22-4	0.001			8	
	noble metal	palladium	7440-05-3	0.001			9	
	noble metal	gold	7440-57-5	0.002			14	
	non noble metal	nickel	7440-02-0	2.052	1.42	1.42	14159	14190
glue	plastics	epoxy resin	-	0.333	0.23		2295	
	noble metal	silver	7440-22-4	1.330	0.92	1.15	9179	11474
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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