

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TLE9241QU	**Issued**	14. May 2021
MA#	MA003401916		
Package	PG-TQFP-48-9	**Weight***	145.32 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	6.463	4.45	4.45	44475	44475
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		115	
	non noble metal	zinc	7440-66-6	0.067	0.05		460	
	non noble metal	iron	7439-89-6	1.337	0.92		9200	
	non noble metal	copper	7440-50-8	54.283	37.35	38.33	373549	383324
wire	non noble metal	copper	7440-50-8	0.457	0.31	0.31	3147	3147
encapsulation	organic material	carbon black	1333-86-4	0.385	0.26		2649	
	plastics	epoxy resin	-	10.394	7.15		71526	
	inorganic material	silicondioxide	60676-86-0	66.214	45.58	52.99	455649	529824
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	1.24	1.24	12444	12471
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	1.41	1.41	14119	14150
glue	plastics	epoxy resin	-	0.458	0.32		3152	
	noble metal	silver	7440-22-4	1.374	0.95	1.27	9457	12609
*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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