



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE4209G	Issued	14. April 2021
MA#	MA005345533		
Package	PG-DSO-14-60	Weight*	143.51 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	3.173	2.21	2.21	22112	22112
leadframe	inorganic material	phosphorus	7723-14-0	0.016	0.01		109	
	non noble metal	zinc	7440-66-6	0.063	0.04		437	
	non noble metal	iron	7439-89-6	1.254	0.87		8741	
	non noble metal	copper	7440-50-8	50.931	35.49	36.41	354901	364188
wires	noble metal	palladium	7440-05-3	0.001			7	
	non noble metal	copper	7440-50-8	0.103	0.07	0.07	721	728
encapsulation	organic material	carbon black	1333-86-4	0.251	0.17		1749	
	plastics	epoxy resin	-	9.788	6.82		68203	
	inorganic material	silicondioxide	60676-86-0	73.617	51.32	58.31	512978	582930
leadfinish	noble metal	palladium	7440-05-3	0.020	0.01		142	
	noble metal	gold	7440-57-5	0.033	0.02		229	
	non noble metal	nickel	7440-02-0	0.719	0.50	0.53	5013	5384
plating	noble metal	palladium	7440-05-3	0.069	0.05		480	
	noble metal	gold	7440-57-5	0.111	0.08		772	
	non noble metal	nickel	7440-02-0	2.425	1.69	1.82	16901	18153
glue	plastics	epoxy resin	-	0.233	0.16		1626	
	noble metal	silver	7440-22-4	0.700	0.49	0.65	4879	6505
*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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