



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	TLE5109A16D E1210	<b>Issued</b>	19. August 2021
<b>MA#</b>	MA002020086		
<b>Package</b>	PG-TDSO-16-2	<b>Weight*</b>	68.72 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.681	0.99	0.99	9912	9912
chip_2	inorganic material	silicon	7440-21-3	0.681	0.99	0.99	9912	9912
leadframe	inorganic material	silicon	7440-21-3	0.007	0.01		95	
	non noble metal	titanium	7440-32-6	0.033	0.05		473	
	non noble metal	chromium	7440-47-3	0.098	0.14		1420	
	non noble metal	copper	7440-50-8	32.380	47.13	47.33	471202	473190
wire	noble metal	gold	7440-57-5	0.242	0.35	0.35	3527	3527
encapsulation	organic material	carbon black	1333-86-4	0.063	0.09		916	
	plastics	epoxy resin	-	3.401	4.95		49485	
	inorganic material	silicondioxide	60676-86-0	28.023	40.78	45.82	407797	458198
leadfinish	non noble metal	tin	7440-31-5	1.198	1.74	1.74	17428	17428
plating	noble metal	silver	7440-22-4	1.680	2.45	2.45	24454	24454
glue	plastics	epoxy resin	-	0.058	0.08		845	
	plastics	acrylic resin	-	0.058	0.08		845	
	inorganic material	silicondioxide	60676-86-0	0.116	0.17	0.33	1689	3379
*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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