



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE9180D-21QK	Issued	08. April 2022
MA#	MA005432048		
Package	PG-LQFP-64-28	Weight*	353.02 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	12.930	3.66	3.66	36627	36627
leadframe	inorganic material	phosphorus	7723-14-0	0.026	0.01		74	
	non noble metal	zinc	7440-66-6	0.104	0.03		295	
	non noble metal	iron	7439-89-6	2.086	0.59		5909	
	non noble metal	copper	7440-50-8	84.702	23.99	24.62	239938	246216
wires	noble metal	palladium	7440-05-3	0.007			19	
	non noble metal	copper	7440-50-8	0.675	0.19	0.19	1912	1931
encapsulation	organic material	carbon black	1333-86-4	0.724	0.20		2050	
	plastics	epoxy resin	-	30.640	8.68		86795	
	inorganic material	silicondioxide	60676-86-0	209.897	59.48	68.36	594583	683428
leadfinish	noble metal	palladium	7440-05-3	0.001			3	
	noble metal	silver	7440-22-4	0.001			3	
	noble metal	gold	7440-57-5	0.002			5	
	non noble metal	nickel	7440-02-0	1.685	0.48	0.48	4774	4785
plating	noble metal	silver	7440-22-4	0.003			8	
	noble metal	palladium	7440-05-3	0.003			9	
	noble metal	gold	7440-57-5	0.005			14	
	non noble metal	nickel	7440-02-0	5.117	1.45	1.45	14495	14526
glue	plastics	epoxy resin	-	0.970	0.27		2747	
	noble metal	silver	7440-22-4	3.438	0.97	1.24	9740	12487
*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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