



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE9180D-31QK	Issued	11. August 2021
MA#	MA005565059		
Package	PG-LQFP-64-27	Weight*	371.31 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	15.886	4.28	4.28	42784	42784
leadframe	inorganic material	phosphorus	7723-14-0	0.033	0.01		88	
	non noble metal	zinc	7440-66-6	0.130	0.04		351	
	non noble metal	iron	7439-89-6	2.606	0.70		7018	
	non noble metal	copper	7440-50-8	105.808	28.50	29.25	284957	292414
wire	non noble metal	copper	7440-50-8	0.790	0.21	0.21	2127	2127
encapsulation	organic material	carbon black	1333-86-4	1.162	0.31		3130	
	plastics	epoxy resin	-	31.377	8.45		84502	
	inorganic material	silicondioxide	60676-86-0	199.881	53.83	62.59	538308	625940
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	1.779	0.48	0.48	4790	4801
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			15	
	non noble metal	nickel	7440-02-0	5.499	1.48	1.48	14811	14843
glue	plastics	epoxy resin	-	1.586	0.43		4273	
	noble metal	silver	7440-22-4	4.759	1.28	1.71	12818	17091
*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.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com