



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE9180D-21QK	Issued	08. April 2022
MA#	MA005346886		
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:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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