



Material Content Data Sheet



Sales Product Name		TLE9180D-21QK		Issued		1. August 2018		
MA#		MA001718790						
Package		PG-LQFP-64-27		Weight*		371.28 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	42788	42788
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	
wire	non noble metal	copper	7440-50-8	105.808	28.50	29.25	284980	292437
	non noble metal	copper	7440-50-8	0.751	0.20	0.20	2023	2023
	encapsulation	organic material	carbon black	1333-86-4	1.162	0.31		3130
leadfinish	plastics	epoxy resin	-	31.378	8.45		84512	
	inorganic material	silicondioxide	60676-86-0	199.888	53.84	62.60	538372	626014
	noble metal	palladium	7440-05-3	0.001	0.00		3	
plating	noble metal	silver	7440-22-4	0.001	0.00		3	
	noble metal	gold	7440-57-5	0.002	0.00		5	
	non noble metal	nickel	7440-02-0	1.779	0.48	0.48	4791	4802
	noble metal	silver	7440-22-4	0.003	0.00		8	
	noble metal	palladium	7440-05-3	0.003	0.00		9	
glue	noble metal	gold	7440-57-5	0.005	0.00		15	
	non noble metal	nickel	7440-02-0	5.499	1.48	1.48	14812	14844
	plastics	epoxy resin	-	1.586	0.43		4273	
*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

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