

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TLE7189QK	**Issued**	02. June 2021
MA#	MA000667708		
Package	PG-LQFP-64-17	**Weight***	379.04 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	24.409	6.44	6.44	64398	64398
leadframe	inorganic material	phosphorus	7723-14-0	0.035	0.01		93	
	non noble metal	zinc	7440-66-6	0.141	0.04		372	
	non noble metal	iron	7439-89-6	2.823	0.74		7447	
	non noble metal	copper	7440-50-8	114.612	30.24	31.03	302377	310289
wire	noble metal	gold	7440-57-5	2.565	0.68	0.68	6766	6766
encapsulation	organic material	carbon black	1333-86-4	1.117	0.29		2946	
	plastics	epoxy resin	-	30.150	7.95		79544	
	inorganic material	silicondioxide	60676-86-0	192.067	50.69	58.93	506724	589214
leadfinish	noble metal	silver	7440-22-4	0.002			4	
	noble metal	palladium	7440-05-3	0.002			5	
	noble metal	gold	7440-57-5	0.003			8	
	non noble metal	nickel	7440-02-0	3.023	0.80	0.80	7974	7991
plating	noble metal	silver	7440-22-4	0.004			10	
	noble metal	palladium	7440-05-3	0.004			11	
	noble metal	gold	7440-57-5	0.007			18	
	non noble metal	nickel	7440-02-0	0.127	0.03	0.03	335	374
glue	plastics	epoxy resin	-	1.987	0.52		5242	
	noble metal	silver	7440-22-4	5.961	1.57	2.09	15726	20968
*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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