



Material Content Data Sheet



Sales Product Name		TLE7189QK		Issued		25. September 2017			
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	
wire	non noble metal	copper	7440-50-8	114.612	30.24	31.03	302377	310289	
		noble metal	gold	7440-57-5	2.565	0.68	0.68	6766	6766
		organic material	carbon black	1333-86-4	1.117	0.29		2946	
encapsulation	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	0.00		4
noble metal	palladium			7440-05-3	0.002	0.00		5	
noble metal	gold			7440-57-5	0.003	0.00		8	
plating	non noble metal	nickel	7440-02-0	3.023	0.80	0.80	7974	7991	
		noble metal	silver	7440-22-4	0.004	0.00		10	
		noble metal	palladium	7440-05-3	0.004	0.00		11	
glue	noble metal	gold	7440-57-5	0.007	0.00		18		
		non noble metal	nickel	7440-02-0	0.127	0.03	0.03	335	374
		plastics	epoxy resin	-	1.987	0.52		5242	
*deviation	< 10%			5.961	1.57	2.09	15726	20968	
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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