



Material Content Data Sheet



Sales Product Name		TLE5309D E5201		Issued		1. August 2018		
MA#		MA002020110						
Package		PG-TDSO-16-2		Weight*		67.84 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.154	0.23	0.23	2266	2266
chip_2	inorganic material	silicon	7440-21-3	0.681	1.00	1.00	10040	10040
chip_3	inorganic material	silicon	7440-21-3	0.681	1.00	1.00	10040	10040
leadframe	inorganic material	silicon	7440-21-3	0.007	0.01		96	
	non noble metal	titanium	7440-32-6	0.033	0.05		479	
	non noble metal	chromium	7440-47-3	0.098	0.14		1438	
	non noble metal	copper	7440-50-8	32.380	47.73	47.93	477314	479327
wire	noble metal	gold	7440-57-5	0.241	0.36	0.36	3553	3553
encapsulation	organic material	carbon black	1333-86-4	0.061	0.09		904	
	plastics	epoxy resin	-	3.311	4.88		48810	
	inorganic material	silicondioxide	60676-86-0	27.287	40.22	45.19	402227	451941
leadfinish	non noble metal	tin	7440-31-5	1.198	1.77	1.77	17654	17654
plating	noble metal	silver	7440-22-4	0.840	1.24	1.24	12386	12386
glue	plastics	epoxy resin	-	0.217	0.32		3198	
	plastics	acrylic resin	-	0.217	0.32		3198	
	inorganic material	silicondioxide	60676-86-0	0.434	0.64	1.28	6397	12793
*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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