



Material Content Data Sheet



Sales Product Name		TLE5309D E1211		Issued		1. August 2018		
MA#		MA002020116						
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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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 München
Internet	www.infineon.com