



Material Content Data Sheet



Sales Product Name		SLB 9645VQ12FW13332 BRLO		Issued		19. July 2018			
MA#		MA001261014							
Package		PG-VQFN-32-13		Weight*		69.20 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	4.050	5.85	5.85	58523	58523	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.01		132		
		non noble metal	zinc	7440-66-6	0.036	0.05		527	
		non noble metal	iron	7439-89-6	0.730	1.05		10543	
wire	non noble metal	copper	7440-50-8	29.625	42.83	43.94	428110	439312	
		noble metal	gold	7440-57-5	0.299	0.43	0.43	4320	4320
		organic material	carbon black	1333-86-4	0.161	0.23		2324	
encapsulation	plastics	epoxy resin	-	4.985	7.20		72045		
		inorganic material	silicondioxide	60676-86-0	27.018	39.04	46.47	390439	464808
		leadfinish	noble metal	palladium	7440-05-3	0.017	0.02		242
noble metal	silver			7440-22-4	0.015	0.02		212	
noble metal	gold			7440-57-5	0.027	0.04		389	
plating	non noble metal	nickel	7440-02-0	0.578	0.84	0.92	8350	9193	
		noble metal	silver	7440-22-4	0.007	0.01		101	
		noble metal	gold	7440-57-5	0.013	0.02		185	
glue	noble metal	palladium	7440-05-3	0.008	0.01		115		
		non noble metal	nickel	7440-02-0	0.275	0.40	0.44	3970	4371
		plastics	epoxy resin	-	0.216	0.31		3116	
*deviation	< 10%			1.132	1.64	1.95	16357	19473	
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

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com