



## Material Content Data Sheet



<b>Sales Product Name</b>				BGSF 18DM20 E6727		<b>Issued</b>		29. August 2013	
<b>MA#</b>				MA000981390					
<b>Package</b>				PG-VCCN-20-1		<b>Weight*</b>		13.62 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	1.238	9.09	9.09	90880	90880	
ball_bumps	noble metal	silver	7440-22-4	0.000	0.00		4		
	non noble metal	tin	7440-31-5	0.002	0.01	0.01	149	153	
encapsulation	organic material	carbon black	1333-86-4	0.017	0.12		1245		
	plastics	epoxy resin	-	0.746	5.48		54792		
	inorganic material	silicondioxide	60676-86-0	4.891	35.90	41.50	359053	415090	
leadfinish	noble metal	gold	7440-57-5	0.177	1.30		13026		
	non noble metal	nickel	7440-02-0	0.202	1.49	2.79	14856	27882	
substrate	plastics	epoxy resin	-	0.008	0.06		568		
	inorganic material	bariumsulfate	7727-43-7	0.012	0.09		872		
	plastics	acrylic resin	-	0.014	0.10		1009		
	non noble metal	copper	7440-50-8	3.148	23.11	23.36	231141	233590	
ubm	non noble metal	titanium	7440-32-6	0.003	0.02		184		
	non noble metal	copper	7440-50-8	0.005	0.04		362		
	non noble metal	nickel	7440-02-0	0.005	0.04	0.10	357	903	
	noble metal	silver	7440-22-4	0.040	0.30		2965		
solder	non noble metal	tin	7440-31-5	1.113	8.17	8.47	81739	84704	
	noble metal	gold	7440-57-5	0.003	0.02		206		
smd	noble metal	palladium	7440-05-3	0.008	0.06		552		
	noble metal	platinum	7440-06-4	0.002	0.01		148		
	non noble metal	nickel	7440-02-0	0.032	0.23		2313		
	non noble metal	tin	7440-31-5	0.085	0.62		6218		
	non noble metal	copper	7440-50-8	0.114	0.84		8405		
	noble metal	silver	7440-22-4	0.176	1.29		12892		
	inorganic material	calcium zirconate	11129-15-0	0.790	5.80		57968		
	inorganic material	titandioxide	13463-67-7	0.791	5.81	14.68	58096	146798	
*deviation	< 10%			Sum in total:		100,00		1000000	

### Important Remarks:

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