



Material Content Data Sheet



Sales Product Name				PTRA083818NF V1 R5		Issued		19. January 2018	
MA#				MA001630422					
Package				PG-HBSOF-6-2		Weight*		3179.47 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip_1	non noble metal	tin	7440-31-5	0.033	0.00		10		
	noble metal	gold	7440-57-5	0.129	0.00		41		
	inorganic material	silicon	7440-21-3	0.823	0.03	0.03	259	310	
chip_2	non noble metal	tin	7440-31-5	0.033	0.00		10		
	noble metal	gold	7440-57-5	0.129	0.00		41		
	inorganic material	silicon	7440-21-3	0.823	0.03	0.03	259	310	
chip_3	non noble metal	tin	7440-31-5	0.005	0.00		1		
	noble metal	gold	7440-57-5	0.018	0.00		6		
	inorganic material	silicon	7440-21-3	0.117	0.00	0.00	37	44	
chip_4	non noble metal	tin	7440-31-5	0.005	0.00		1		
	noble metal	gold	7440-57-5	0.018	0.00		6		
	inorganic material	silicon	7440-21-3	0.117	0.00	0.00	37	44	
chip_5	non noble metal	tin	7440-31-5	0.071	0.00		22		
	noble metal	gold	7440-57-5	0.277	0.01		87		
	inorganic material	silicon	7440-21-3	1.809	0.06	0.07	569	678	
chip_6	non noble metal	tin	7440-31-5	0.016	0.00		5		
	noble metal	gold	7440-57-5	0.061	0.00		19		
	inorganic material	silicon	7440-21-3	0.496	0.02	0.02	156	180	
chip_7	non noble metal	tin	7440-31-5	0.016	0.00		5		
	noble metal	gold	7440-57-5	0.061	0.00		19		
	inorganic material	silicon	7440-21-3	0.496	0.02	0.02	156	180	
chip_8	non noble metal	tin	7440-31-5	0.092	0.00		29		
	noble metal	gold	7440-57-5	0.355	0.01		112		
	inorganic material	silicon	7440-21-3	2.321	0.07	0.08	730	871	
chip_9	non noble metal	tin	7440-31-5	0.030	0.00		9		
	noble metal	gold	7440-57-5	0.116	0.00		36		
	inorganic material	silicon	7440-21-3	0.950	0.03	0.03	299	344	
leadframe	inorganic material	phosphorus	7723-14-0	0.136	0.00		43		
	non noble metal	zinc	7440-66-6	0.545	0.02		172		
	non noble metal	iron	7439-89-6	10.909	0.34		3431		
	non noble metal	copper	7440-50-8	442.945	13.93	14.29	139314	142960	
wire	noble metal	gold	7440-57-5	10.236	0.32	0.32	3219	3219	
encapsulation	organic material	carbon black	1333-86-4	2.848	0.09		896		
	plastics	epoxy resin	-	111.078	3.49		34936		
	inorganic material	silicondioxide	60676-86-0	835.455	26.28	29.86	262766	298598	
leadfinish	non noble metal	tin	7440-31-5	28.098	0.88	0.88	8837	8837	
plating	noble metal	silver	7440-22-4	12.471	0.39	0.39	3922	3922	
heat spreader	inorganic material	phosphorus	7723-14-0	0.515	0.02		162		
	non noble metal	iron	7439-89-6	1.715	0.05		540		
	non noble metal	copper	7440-50-8	1713.102	53.91	53.98	538801	539503	
*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