



## Material Content Data Sheet



<b>Sales Product Name</b>				PTRA093818NF V1 R5		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001630424					
<b>Package</b>				PG-HBSOF-6-2		<b>Weight*</b>		3179.69 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	139304	142950	
wire	noble metal	gold	7440-57-5	10.482	0.33	0.33	3296	3296	
encapsulation	organic material	carbon black	1333-86-4	2.848	0.09		896		
	plastics	epoxy resin	-	111.075	3.49		34933		
	inorganic material	silicondioxide	60676-86-0	835.433	26.27	29.85	262740	298569	
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		539		
	non noble metal	copper	7440-50-8	1713.102	53.91	53.98	538764	539465	
*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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