



Material Content Data Sheet



Sales Product Name				IPP100N04S4-03D		Issued		29. August 2013	
MA#				MA001149132					
Package				PG-TO220-3-1		Weight*		2032.89 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	1.217	0.06		599		
	noble metal	gold	7440-57-5	0.233	0.01		114		
	non noble metal	tin	7440-31-5	0.060	0.00	0.07	30	743	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401071	401594	
wire	non noble metal	aluminium	7429-90-5	7.802	0.38	0.38	3838	3838	
encapsulation	organic material	carbon black	1333-86-4	8.929	0.44		4392		
	plastics	epoxy resin	-	98.214	4.83		48313		
	inorganic material	silicondioxide	60676-86-0	488.096	24.01	29.28	240100	292805	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10558	10558	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.00	29.04	289965	290342	
*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.

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