



Material Content Data Sheet



Sales Product Name				IPP041N04N G		Issued		29. August 2013	
MA#				MA000733202					
Package				PG-TO220-3-123		Weight*		2025.78 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	2.247	0.11	0.11	1109	1109	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		403		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.25	40.30	402480	403004	
wire	non noble metal	aluminium	7429-90-5	6.371	0.31	0.31	3145	3145	
encapsulation	organic material	carbon black	1333-86-4	2.343	0.12		1157		
	plastics	epoxy resin	-	67.946	3.35		33541		
	inorganic material	silicondioxide	60676-86-0	515.451	25.44	28.91	254446	289144	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10595	10595	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871	
solder	non noble metal	tin	7440-31-5	1.017	0.05		502		
	noble metal	silver	7440-22-4	0.391	0.02		193		
	non noble metal	antimony	7440-36-0	0.156	0.01	0.08	77	772	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	290982	291360	
*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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