



Material Content Data Sheet



Sales Product Name	IPP90N06S4-04			Issued		29. August 2013		
MA#	MA000467716							
Package	PG-TO220-3-1			Weight*		2036.44 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	5.184	0.25	0.25	2546	2546
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400372	400894
wire	non noble metal	aluminium	7429-90-5	6.411	0.31	0.31	3148	3148
encapsulation	organic material	carbon black	1333-86-4	8.888	0.44		4364	
	plastics	epoxy resin	-	97.767	4.80		48009	
	inorganic material	silicondioxide	60676-86-0	485.875	23.86	29.10	238591	290964
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10539	10539
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
solder	noble metal	silver	7440-22-4	0.099	0.00		49	
	non noble metal	tin	7440-31-5	0.079	0.00		39	
	non noble metal	lead	7439-92-1	3.796	0.19	0.19	1864	1952
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	28.95	28.99	289460	289837
*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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