



Material Content Data Sheet



Sales Product Name		IPP120P04P4-04		Issued		29. August 2013		
MA#		MA000892176						
Package		PG-TO220-3-1		Weight*		2036.80 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	5.301	0.26	0.26	2602	2602
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	400302	400824
wire	non noble metal	aluminium	7429-90-5	9.913	0.49	0.49	4867	4867
encapsulation	organic material	carbon black	1333-86-4	8.840	0.43		4340	
	plastics	epoxy resin	-	97.239	4.77		47741	
	inorganic material	silicondioxide	60676-86-0	483.249	23.73	28.93	237260	289341
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10537	10537
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	0.098	0.00		48	
	non noble metal	tin	7440-31-5	0.078	0.00		38	
	non noble metal	lead	7439-92-1	3.741	0.18	0.18	1837	1923
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289409	289786
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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